



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 139983

TO: Terra Gibbs
Location: REM-2D10/2C18
Art Unit: 1635
Thursday, December 09, 2004
Case Serial Number: 09/661658

From: Paul Schulwitz
Location: Biotech-Chem Library
REM-1A65
Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Gibbs,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527



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SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is ____.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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12/1 05p

Schulwitz, Paul

From: Gibbs, Terra
Sent: Wednesday, December 01, 2004 11:00 AM
To: Schulwitz, Paul
Subject: Sequence search request...

Hi Paul,

I have another request for a score over length search:

I need a length limited nucleotide sequence search of SEQ ID NO:2 in USSN 09661658, where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 100 nucleotides, and I'll take as many hits as you can import into excel (64,000?); and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched.

Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
Mailbox 2C18
571-272-0758

12/2 10-16

<u>rge</u>	<u>rng</u>	<u>rni</u>	<u>rnpp</u>	<u>rnpm</u>	<u>rnph</u>
35	183	27	14	78	

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using bw model

Run on: December 9, 2004, 17:22:29 ; Search time 0.001 Seconds
(without alignments)
854.120 Million cell updates/sec

Title: us-09-661-658-2

Perfect score: 131

Sequence: 1 gctctgagcttaagtgact.....atgcctaacgactccct 131

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 174 seqs, 3260 residues

Total number of hits satisfying chosen parameters: 348

Minimum DB seq length: 8

Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 163 summaries

Database : rngdb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	82	62.6	82	1	ABN83051
2	82	62.6	82	1	AA143067
3	82	62.6	82	1	AA143090
4	82	62.6	82	1	ADQ96971
5	82	62.6	82	1	ADQ96997
6	80	61.1	82	1	ABN83053
7	76	58.0	94	1	AA143048
8	76	58.0	94	1	ADA39564
9	76	58.0	94	1	ADQ96955
10	40	30.5	45	1	AA143089
11	40	30.5	45	1	ADQ96956
12	31.8	24.3	40	1	AA143082
13	31.8	24.3	42	1	AAQ89182
14	30.8	23.5	38	1	AA143063
15	30.4	23.2	38	1	AAQ89171
16	30.4	23.2	40	1	AAQ89120
17	22.4	17.1	24	1	AA143046
18	22.4	17.1	24	1	ADA39562
19	22.4	17.1	24	1	ADQ96953
20	16	12.2	21	1	ABQ84377
21	15.8	12.1	20	1	ABQ84377
22	15.4	11.8	20	1	ABQ77191
23	15.2	11.6	20	1	AAV01286
24	15.2	11.6	20	1	ABZ86444
25	15.2	11.6	20	1	ABZ86444
26	14.2	10.8	82	1	ABN83051
27	14.2	10.8	82	1	AA143067
28	14.2	10.8	82	1	AA143090
29	14.2	10.8	82	1	ADQ96971
30	14.2	10.8	82	1	ADQ96997
31	13.8	10.5	18	1	ACF63061
32	13.8	10.5	18	1	ACF63063
33	13.8	10.5	18	1	ADB54669

34	13.6	10.4	94	1	AA143048	Regulatable, catal
35	13.6	10.4	94	1	ADA39564	RCANA construction
36	13.6	10.4	94	1	ADQ96955	RCANA GPTRH1P6 mut
37	13.2	10.1	82	1	ABN83053	Group I p6 aptazym
38	12.8	9.8	16	1	AA556827	Validation ribozym
39	12.8	9.8	17	1	ABT35681	Tumour suppression
40	12.8	9.8	17	1	ACC80518	m2CRE2 EMSA probe
41	12.8	9.8	17	1	ADB41555	Tumour suppression
42	12.8	9.8	17	1	ADP42040	Rice acetolactate
43	12.8	9.8	17	1	AD149919	Human tumour suppr
44	12.8	9.8	17	1	ACC53993	Human tumour suppr
45	12.8	9.8	17	1	AD184100	HCV DNazyme subctr
46	12.4	9.5	15	1	AA546644	Mouset IL-5 hammetrh
47	12	9.2	13	1	ABH36274	Oligonucleotide SE
48	12	9.2	13	1	ABH36275	Oligonucleotide SE
49	12	9.2	15	1	AB199108	Human PCDH2 ASO PC
50	11.8	9.0	15	1	AA131622	Tag sequence of a
51	11.8	9.0	15	1	AA262880	Substrate for HH r
52	11.8	9.0	15	1	AA476620	IGFAP3 oligonucleo
53	11.8	9.0	15	1	ABK32576	Human pancreatic c
54	11.8	9.0	15	1	ABX00731	Hepatitis C virus
55	11.4	8.7	13	1	ABC28016	Oligonucleotide SE
56	11.4	8.7	13	1	ABC53209	Oligonucleotide SE
57	11.4	8.7	13	1	ABF13691	Oligonucleotide SE
58	11.4	8.7	13	1	ABC55896	Oligonucleotide SE
59	11.4	8.7	13	1	ABC55897	Oligonucleotide SE
60	11.4	8.7	13	1	ABF13513	Oligonucleotide SE
61	11.4	8.7	13	1	ABF97213	Oligonucleotide SE
62	11.4	8.7	13	1	ABF50367	Oligonucleotide SE
63	11.4	8.7	13	1	ABH33765	Oligonucleotide SE
64	11.4	8.7	13	1	ABC53208	Oligonucleotide SE
65	11.4	8.7	13	1	ABG61347	Oligonucleotide SE
66	11.4	8.7	13	1	ABF13512	Oligonucleotide SE
67	11.4	8.7	13	1	ABF32342	Oligonucleotide SE
68	11.4	8.7	13	1	ABG61346	Oligonucleotide SE
69	11.4	8.7	13	1	ABF50366	Oligonucleotide SE
70	11.4	8.7	13	1	ABG81417	Oligonucleotide SE
71	11.4	8.7	13	1	ABH00081	Oligonucleotide SE
72	11.4	8.7	13	1	ABF58084	Oligonucleotide SE
73	11.4	8.7	13	1	ABF52343	Oligonucleotide SE
74	11.4	8.7	13	1	ABH01944	Oligonucleotide SE
75	11.4	8.7	13	1	ABH00080	Oligonucleotide SE
76	11.4	8.7	13	1	ABH02044	Oligonucleotide SE
77	11.4	8.7	13	1	ABF58085	Oligonucleotide SE
78	11.4	8.7	13	1	ABC28017	Oligonucleotide SE
79	11.4	8.7	13	1	ABH20654	Oligonucleotide SE
80	11.4	8.7	13	1	ABH33764	Oligonucleotide SE
81	11.4	8.7	13	1	ABH42900	Oligonucleotide SE
82	11.4	8.7	13	1	ABH81416	Oligonucleotide SE
83	11.4	8.7	13	1	ABF44034	Oligonucleotide SE
84	11.4	8.7	13	1	ABF94136	Oligonucleotide SE
85	11.4	8.7	13	1	ABF94137	Oligonucleotide SE
86	11.4	8.7	13	1	ABH01200	Oligonucleotide SE
87	11.4	8.7	13	1	ABF44035	Oligonucleotide SE
88	11.4	8.7	13	1	ABH20655	Oligonucleotide SE
89	11.4	8.7	13	1	ABF97212	Oligonucleotide SE
90	11.4	8.7	13	1	ABH42901	Oligonucleotide SE
91	11.4	8.7	13	1	ABH01201	Oligonucleotide SE
92	11.4	8.7	13	1	ABF13690	Oligonucleotide SE
93	11.4	8.7	13	1	ABH01945	Oligonucleotide SE
94	11.4	8.7	13	1	ABH02045	Oligonucleotide SE
95	11.4	8.7	15	1	AA54959	Mouset re1a hammetrh
96	11.4	8.7	15	1	AA57042	RSV IC hammetrh
97	11.4	8.7	15	1	AA57041	RSV IC hammetrh
98	11.4	8.7	15	1	AA65300	Mouset B7-1 hammetrh
99	11.4	8.7	15	1	AA65299	Mouset B7-1 hammetrh
100	11.4	8.7	15	1	AA131607	Tag sequence of a
101	11.4	8.7	15	1	AA484826	IGFAP3 oligonucleo
102	11.4	8.7	15	1	AA484827	IGFAP3 oligonucleo
103	11.4	8.7	15	1	AA476618	IGFAP3 oligonucleo
104	11.4	8.7	15	1	AA476619	IGFAP3 oligonucleo
105	11.4	8.7	15	1	AA484825	IGFAP3 oligonucleo
106	11.4	8.7	15	1	AA519622	ASO primer #1 to d

PS Disclosure; Fig 2A; 42pp; English.

XX The sequence represents the Gp17h1p6.131 aptamer construct used in the

CC invention. The invention relates to a novel aptazyme construct comprising

CC a regulatable Group I intron aptamer oligonucleotide sequence having an

CC allosterically regulatable regulatory domain, where the kinetic

CC parameters of the aptazyme on a target gene vary in response to the

CC interaction of an allosteric effector molecule with the regulatory

CC domain, and the intron splicing reaction occurs in vitro. The aptazyme is

CC useful: (1) in assays to detect the presence of ligands or to detect

CC activation of an aptazyme by an effector; (2) in the identification,

CC isolation and enhancement of allosteric effectors and of the

CC allosterically regulatable aptazymes with which they interact; (3) to

CC activate or repress a reporter gene (e.g. luciferase) containing an

CC engineered intron in response to an endogenous activator; and (4) to

CC monitor intracellular levels of proteins or small molecules such as

CC cyclic AMP

SQ Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;

QY Query Match 62.6%; Score 82; DB 1; Length 82;

DB Best Local Similarity 74.4%; Pred. No. 1.8e-05;

Matches 61; Conservative 21; Mismatches 0; Indels 0; Gaps 0;

QY 37 TAAACGGGGAACCTCTCTAGTACACATCCCGCTTAATTATACAGCATGCTTGAT 96

1 UAAACGGGGAACCCUCUGAGACAUCCCGCUAAUUAUACGACAUCCGUCUGAU 60

QY 97 GCCCTTGACGATTAATGCTTA 118

61 GCCCUGGCGAUAUAUAGCCUA 82

DB

RESULT 2

AA143067

ID AA143067 standard; RNA; 82 BP.

XX AA143067;

XX

DT 25-SEP-2002 (first entry)

XX

XX Regulatable, catalytically active nucleic acid #2.

DE Regulatable, catalytically active nucleic acid; RCANA; ribozyme;

KW gene therapy; ss.

XX

XX Unidentified.

OS

XX

PH Key Location/Qualifiers

FT misc_binding 4..8

FT /tag= a

FT /bound_molety= "binds nucleotides 33-29 of itself"

FT 14..24

FT /tag= b

FT 29..33

FT /tag= c

FT /bound_molety= "binds nucleotides 8-4 of itself"

FT 34..35

FT /tag= d

FT /bound_molety= "binds nucleotides 79-78 of itself"

FT 41

FT /tag= e

FT /bound_molety= "binds nucleotide 72 of itself"

FT 45..46

FT /tag= f

FT /bound_molety= "binds nucleotides 68-67 of itself"

FT 48..62

FT /tag= g

FT 67..68

FT /tag= h

FT /bound_molety= "binds nucleotides 46-45 of itself"

FT 72

FT /tag= i

FT misc_binding

FT /bound_molety= "binds nucleotide 41 of itself"

FT 78..79

FT /tag= j

FT /bound_molety= "binds nucleotides 35-34 of itself"

FT

XX WO200196559-A2.

PN

XX 20-DEC-2001.

PD

XX

XX 14-JUN-2001; 2001WO-US019302.

XX

XX 15-JUN-2000; 2000US-0212097P.

XX

XX (TEXA) UNIV TEXAS SYSTEM.

PA

XX Ellington AD, Heeslberth J, Marshall K, Robertson M, Sooter L;

PI Davidson E, Cox JC, Reidel T;

XX

XX MPI; 2002-122216/16.

DR

XX

XX New regulatable, catalytically active nucleic acids (RCANA), useful in

PT gene therapy (particularly for regulating gene expression), or in assays

PT for detecting the presence of ligands or activation of an effector of

PT RCANA.

XX

XX Example 1; Fig 2A; 126pp; English.

PS

XX

XX The present invention relates to regulatable, catalytically active

CC nucleic acids (RCANAs) which are regulated by polypeptides. These are

CC useful for regulating gene expression, in assays for detecting the

CC presence of ligands for activation of an effector of RCANA, and in gene

CC therapy. The present sequence is an RCANA described in the

CC exemplification of the invention

XX

SQ Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;

QY Query Match 62.6%; Score 82; DB 1; Length 82;

DB Best Local Similarity 74.4%; Pred. No. 1.8e-05;

Matches 61; Conservative 21; Mismatches 0; Indels 0; Gaps 0;

QY 37 TAAACGGGGAACCTCTCTAGTACACATCCCGCTTAATTATACAGCATGCTTGAT 96

1 UAAACGGGGAACCCUCUGAGACAUCCCGCUAAUUAUACGACAUCCGUCUGAU 60

QY 97 GCCCTTGACGATTAATGCTTA 118

61 GCCCUGGCGAUAUAUAGCCUA 82

DB

RESULT 3

AA143090

ID AA143090 standard; RNA; 82 BP.

XX AA143090;

XX

DT 25-SEP-2002 (first entry)

XX

XX Regulatable, catalytically active nucleic acid #22.

DE Regulatable, catalytically active nucleic acid; RCANA; ribozyme;

KW gene therapy; ss.

XX

XX Unidentified.

OS

XX

PH Key Location/Qualifiers

FT misc_binding 4..8

FT /tag= a

FT /bound_molety= "binds nucleotides 33-29 of itself"

FT 14..24

FT /tag= b

FT 29..33

FT /tag= c

FT /bound_molety= "binds nucleotides 8-4 of itself"

FT

FT misc_binding

Query Match	Best Local Similarity	Matches	Conservative	Mismatches	Indels	Gaps
37 TAAACGGGACCTCTCTAGTGAAGAAACCCGTGTAATATTACACGATGCTGTGAT	62.6%; Score 82; DB 1; Length 82;	61;	21;	0;	0;	0;
1 UAAACGGGACCTCTCTAGTGAAGAAACCCGTGTAATATTACACGATGCTGTGAT	74.4%; Pred. No. 1.8e-05;	61;	21;	0;	0;	0;
97 GCCCTTGGCAGATAATAGCTTA 118		61	GCCCTTGGCAGATAATAGCTTA	82		

Accession	Gene	Protein	Domain	Location/Qualifiers
DE	T4	theophylline-dependent intron	based RCANA	GPR1P6.133 #1.
XX				
KM	RCANA	catalytically active regulatable nucleic acid	ss; ribozyme;	
KM	aparamer	effector domain; nucleic acid catalyst domain; gene therapy;		
KW	industrial biosynthes	is; bioremediation; bacteriophage T4;		
KW	thymidylate synthase	; self-splicing intron.		
XX				
OS	Enterobacteria	phage T4.		
OS	Synthetic.			
XX				
FT	Key			Location/Qualifiers
FT	misc_binding			4..8
FT				/tag= a
FT				/bound_moiety= "Bases 33-29 of the present sequence"
FT	stem_loop			14..24
FT				/tag= b
FT				/bound_moiety= "Bases 8-4 of the present sequence"
FT	misc_binding			29..33
FT				/tag= c
FT				/bound_moiety= "Bases 8-4 of the present sequence"
FT	misc_binding			34..35
FT				/tag= d
FT				/bound_moiety= "Bases 79-78 of the present sequence"
FT	misc_binding			41
FT				/tag= e
FT				/bound_moiety= "Base 72 of the present sequence"
FT	misc_binding			45..46
FT				/tag= f
FT				/bound_moiety= "Bases 68-67 of the present sequence"
FT	stem_loop			48..62
FT				/tag= g
FT				/bound_moiety= "Bases 46-45 of the present sequence"
FT	misc_binding			67..68
FT				/tag= h
FT				/bound_moiety= "Bases 46-45 of the present sequence"
FT	misc_binding			72
FT				/tag= i
FT				/bound_moiety= "Base 41 of the present sequence"
FT	misc_binding			78..79
FT				/tag= j
FT				/bound_moiety= "Bases 35-34 of the present sequence"
XX				
XX	US2004126882-A1.			
XX				
PD	01-JUL-2004.			
XX				
PF	24-SEP-2002; 2002US-00254568.			
XX				
PR	15-JUN-2000; 2000US-0212097P.			
PR	14-SEP-2000; 2000US-00661658.			
PR	20-SEP-2000; 2000US-00666870.			
PR	14-JUN-2001; 2001US-00883119.			
PR	24-SEP-2001; 2001US-0324715F.			
XX				
XX	(ELLI/) ELLINGTON A D.			
PA	(HESS/) HESSELBERTH J.			
PA	(THOM/) THOMPSON K.			
PA	(ROBE/) ROBERTSON M P.			
PA	(SOOT/) SOOTER L.			
PA	(DAVI/) DAVIDSON E.			
PA	(COX/) COX J C.			
PA	(RIED/) RIEDEL T.			
PA	(WILS/) WILSON C.			
PA	(CLOA/) CLOAD S T.			
PA	(KEEF/) KEEFE A D.			
XX				
XX	Ellington AD, Hesselberth J, Thompson K, Robertson MP, Sooter L;			
PI	Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;			
XX				
XX	WPI; 2004-560517/54.			
XX				
PT	Novel regulatable, catalytically active nucleic acid comprising effector			
PT	domain, and catalyst domain which comprises randomized catalytic residues			
PT	and is regulated by effector that interacts with effector domain.			
XX				

PS Example 1; SEQ ID NO 38; 78bp; English.

XX The invention relates to a regulatable, catalytically active nucleic acid
 CC (RCANA) segment comprising an effector domain and a nucleic acid catalyst
 CC domain in which one or more critical catalytic residues of the nucleic
 CC acid catalyst have been randomised, where the kinetic parameters of the
 CC catalytic domain are regulated by an effector that interacts with the
 CC effector domain. Also included are a nucleic acid comprising a gene, a
 CC RCANA inserted within the gene (where the presence of an effector causes
 CC the nucleic acid to catalyse a reaction), isolating an RCANA (comprising
 CC a catalytic and an effector domain involving randomising at least one
 CC nucleotide in the catalytic domain of a catalytically active nucleic acid
 CC to create a nucleic acid pool, removing from the nucleic acid pool those
 CC nucleic acids that interact with the catalytic target of the catalytic
 CC domain, adding an effector molecule to the nucleic acids and isolating
 CC those nucleic acids that interact with the catalytic target of the
 CC catalytic domain), detection of a target using a RCANA, modifying a
 CC target using a RCANA (involving providing a RCANA capable of target-
 CC specific modification and modifying the target under conditions that
 CC cause a RCANA-specific activity), selecting an RCANA and detecting an
 CC RCANA (involving isolating an RCANA), creating a construct in which the
 CC nucleic acid is in position to regulate the expression of a reporter
 CC gene, introducing the construct into a host cell and measuring the
 CC catalytic activity of the nucleic acid upon exposure of the host cell to
 CC the effector. The RCANA is useful for regulating production of a product
 CC in a cell (by gene therapy) which involves inserting into a gene that
 CC produces the product or regulates the production of the product in the
 CC cell an RCANA which comprises a catalytic domain, that modifies a
 CC transcript to alter its coding potential, and a regulatory domain which
 CC recognises an effector that alters the function of the catalytic domain,
 CC controlling the regulatory domain with an effector thereby regulating
 CC production of the product. The concentration of the effector modulates
 CC the activity of the catalytic domain of the RCANA. The production of the
 CC product is fully inhibited or is increased compared to a normal control
 CC level, or is partially inhibited according to the concentration of the
 CC effector. The RCANA blocks or activates expression of the gene. The
 CC effector is the product, where it accesses feedback inhibitor of the
 CC gene. The product is produced in a metabolic pathway that is being
 CC regulated, and the effector or the product is an intermediate in a
 CC metabolic pathway. The effector is endogenous or exogenous to the cell.
 CC The product is an end product of a biosynthetic process. The effector or
 CC the product is chosen from protein, enzyme, protein pharmaceutical,
 CC metabolite, drug, dye, vitamin, food additive, chemical additive,
 CC pesticide, insecticide, feed compound, and a waste product. The drug is
 CC chosen from antibiotics, anticancer drugs, antifungals, cholesterol-
 CC lowering drugs, and immunosuppressants. The RCANA is useful for
 CC regulating a biological pathway in a cell, for screening a population of
 CC cells for a cell that produces a bioproduct, for modulating expression of
 CC a nucleic acid, in gene therapy applications, and for facilitating
 CC industrial biosynthesis and bioremediation. The present sequence is an
 CC RCANA based on the bacteriophage T4 thymidylate synthase gene self-
 CC splicing intron.

CC Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;

Query Match 62.6%; Score 82; DB 1; Length 82;
 Best Local Similarity 74.4%; Pred. No. 1.8e-05;
 Matches 61; Conservative 21; Mismatches 0; Indels 0; Gaps 0;

QY 37 TAAACGGGGAACCTCTAGTACATCCGTCGTAATTATACGACATCGCTTGAT 96
 Db 1 UAAACGGGGAACCTCTAGTACATCCGTCGTAATTATACGACATCGCTTGAT 60
 QY 97 GCCCTTGGCAGATTAATGCTTA 118
 Db 61 GCCCTTGGCAGATTAATGCTTA 82

RESULT 5
 ADQ96997
 ID ADQ96997 standard; RNA; 82 BP.
 XX
 AC ADQ96997;

XX 23-SEP-2004 (first entry)
 DT Theophylline-dependent group I intron RCANA Th1b6.
 DE RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;
 XX aptamer; effector domain; nucleic acid catalyst domain; gene therapy;
 KM industrial biosynthesis; bioremediation; bacteriophage T4;
 KM thymidylate synthase; self-splicing intron.
 XX Enterobacteria phage T4.
 OS Synthetic.
 FH Key Location/Qualifiers
 FT misc_binding 4..8
 FT /tag= a
 FT /bound_molecly= "Bases 33-29 of the present sequence"
 FT stem_loop 14..24
 FT /tag= b
 FT /bound_molecly= "Bases 8-4 of the present sequence"
 FT misc_binding 29..33
 FT /tag= c
 FT /bound_molecly= "Bases 8-4 of the present sequence"
 FT misc_binding 34..35
 FT /tag= d
 FT /bound_molecly= "Bases 78-79 of the present sequence"
 FT misc_binding 41
 FT /tag= e
 FT /bound_molecly= "Base 72 of the present sequence"
 FT misc_binding 45..46
 FT /tag= f
 FT /bound_molecly= "Bases 68-67 of the present sequence"
 FT stem_loop 48..62
 FT /tag= g
 FT /bound_molecly= "Bases 67..68
 FT misc_binding 67..68
 FT /tag= h
 FT /bound_molecly= "Bases 46-45 of the present sequence"
 FT misc_binding 72
 FT /tag= i
 FT /bound_molecly= "Base 41 of the present sequence"
 FT misc_binding 78..79
 FT /tag= j
 FT /bound_molecly= "Bases 35-34 of the present sequence"
 XX US2004126882-A1.
 PN 01-JUL-2004.
 XX 24-SEP-2002; 2002US-00254568.
 XX 15-JUN-2000; 2000US-0212097P.
 PR 14-SEP-2000; 2000US-00661658.
 PR 20-SEP-2000; 2000US-00666870.
 PR 14-JUN-2001; 2001US-00883119.
 PR 24-SEP-2001; 2001US-0324715P.
 XX (ELLI/) ELLINGTON A. D.
 PA (HESS/) HESSELBERG J.
 PA (THOM/) THOMPSON K.
 PA (ROBE/) ROBERTSON M. P.
 PA (SOOT/) SOOTER L.
 PA (DAVI/) DAVIDSON E.
 PA (COXJ/) COX J. C.
 PA (RIED/) RIEDEL T.
 PA (WILS/) WILSON C.
 PA (CLOA/) CLOAD S. T.
 PA (KEEF/) KEEFE A. D.
 XX Billington AD, Hesselbergh J, Thompson K, Robertson MP, Sooter L;
 PI Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;
 XX WPI; 2004-560517/54.
 PT Novel regulatable, catalytically active nucleic acid comprising effector

PT domain, and catalyst domain which comprises randomized catalytic residues
 PT and is regulated by effector that interacts with effector domain.

PS Example 5; SEQ ID NO 65; 78pp; English.

XX The invention relates to a regulatable, catalytically active nucleic acid
 CC (RCANA) segment comprising an effector domain and a nucleic acid catalyst
 CC domain in which one or more critical catalytic residues of the nucleic
 CC acid catalyst have been randomized, where the kinetic parameters of the
 CC catalytic domain are regulated by an effector that interacts with the
 CC effector domain. Also included are a nucleic acid comprising a gene, a
 CC RCANA inserted within the gene (where the presence of an effector causes
 CC the nucleic acid to catalyze a reaction), isolating an RCANA (comprising
 CC a catalytic domain and an effector domain involving randomising at least one
 CC nucleotide in the catalytic domain of a catalytically active nucleic acid
 CC to create a nucleic acid pool, removing from the nucleic acid pool those
 CC nucleic acids that interact with the catalytic target of the catalytic
 CC domain, adding an effector molecule to the nucleic acids and isolating
 CC those nucleic acids that interact with the catalytic target of the
 CC catalytic domain), detection of a target using a RCANA, modifying a
 CC target using a RCANA (involving providing a RCANA capable of target-
 CC specific modification and modifying the target under conditions that
 CC cause a RCANA-specific activity), selecting an RCANA and detecting an
 CC RCANA (involving isolating an RCANA, creating a construct in which the
 CC nucleic acid is in position to regulate the expression of a reporter
 CC gene, introducing the construct into a host cell and measuring the
 CC catalytic activity of the nucleic acid upon exposure of the host cell to
 CC the effector. The RCANA is useful for regulating production of a product
 CC in a cell (by gene therapy) which involves inserting into a gene that
 CC produces the product or regulates the production of the product in the
 CC cell an RCANA which comprises a catalytic domain, that modifies a
 CC transcript to alter its coding potential, and a regulatory domain which
 CC recognizes an effector that alters the function of the catalytic domain,
 CC connecting the regulatory domain with an effector thereby regulating
 CC production of the product. The concentration of the effector modulates
 CC the activity of the catalytic domain of the RCANA. The production of the
 CC product is fully inhibited or is increased compared to a normal control
 CC level, or is partially inhibited according to the concentration of the
 CC effector. The RCANA blocks or activates expression of the gene. The
 CC effector is the product, where it accesses feedback inhibitor of the
 CC gene. The product is produced in a metabolic pathway that is being
 CC regulated, and the effector or the product is an intermediate in a
 CC metabolic pathway. The effector is endogenous or exogenous to the cell.
 CC The effector is an end product of a biosynthetic process. The effector or
 CC the product is chosen from protein, enzyme, protein pharmaceutical,
 CC metabolite, drug, dye, vitamin, food additive, chemical additive,
 CC pesticide, insecticide, feed compound, and a waste product. The drug is
 CC chosen from antibiotics, anticancer drugs, antifungals, cholesterol-
 CC lowering drugs, and immunosuppressants. The RCANA is useful for
 CC regulating a biological pathway in a cell, for screening a population of
 CC cells for a cell that produces a bioproduct, for modulating expression of
 CC a nucleic acid, in gene therapy applications, and for facilitating
 CC industrial biosynthesis and bioremediation. The present sequence is an
 CC RCANA based on the bacteriophage T4 thymidylate synthase gene self-
 CC splicing intron.

XX Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;

Query Match 62.6%; Score 82; DB 1; Length 82;
 Best Local Similarity 74.4%; Pred. No. 1.8e-05;
 Matches 61; Conservative 21; Mismatches 0; Indels 0; Gaps 0;

QY 37 TAAACGGGGAACCTCTAGTAGACAATCCGTCGTAAATTATACGACATCGCTTGTAT 96
 Db 1 UAAACGGGGAACCTCTAGTAGACAATCCGTCGTAAATTATACGACATCGCTTGTAT 96
 61 UAAACGGGGAACCTCTAGTAGACAATCCGTCGTAAATTATACGACATCGCTTGTAT 60

QY 97 GCCCTTGGCAGATTAATGCTTA 118
 Db 61 GCCCTTGGCAGATTAATGCTTA 118

RESULT 6
 ABN83053

ID ABN83053 standard; RNA; 82 BP.
 XX
 AC ABN83053;
 XX
 XX 16-AUG-2002 (first entry)
 DT
 XX Group I P6 aptazyme pool.
 DE
 XX Aptazyme; regulatable; aptamer; luciferase; cyclic AMP; ss;
 KM Group I ribozyme; anti-theophylline; aptazyme pool.
 XX
 OS Unidentified.
 XX
 FH Key
 FT misc_binding
 FT /tag= a
 FT /bound_moiety= "Bases 33-28"
 FT
 FT stem_loop
 FT /tag= b
 FT /tag= 28..33
 FT /tag= a
 FT /bound_moiety= "Bases 9-4"
 FT
 FT misc_binding
 FT /tag= c
 FT /bound_moiety= "Bases 79-78"
 FT
 FT misc_feature
 FT /tag= d
 FT /note= "Base may be repeated 1-4 times"
 FT /tag= 45..46
 FT /tag= e
 FT /bound_moiety= "Bases 68-67"
 FT
 FT stem_loop
 FT /tag= f
 FT /tag= 67..68
 FT /tag= g
 FT /bound_moiety= "Bases 46-45"
 FT
 FT misc_feature
 FT /tag= h
 FT /bound_moiety= "Base may be repeated 1-4 times"
 FT /tag= 78..79
 FT /tag= i
 FT /bound_moiety= "Bases 35-34"
 FT
 FT misc_binding
 FT /tag= j
 FT /bound_moiety= "Bases 35-34"
 FT
 FT WO200196541-A2.
 PN
 XX 20-DEC-2001.
 XX
 XX 15-JUN-2001; 2001WO-US019119.
 XX
 XX 15-JUN-2000; 2000US-00661658.
 XX
 XX (TEXA) UNIT TEXAS.
 PA
 PI Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L;
 PI Davidson E, Cox JC, Reidel T;
 PI
 XX WPI; 2002-090203/12.
 DR
 XX Aptazyme construct for detecting the presence of ligands, comprises a
 PT regulatable Group I intron aptamer oligonucleotide with a regulatory
 PT domain, and modulates their kinetic parameters in response to an
 PT effector.
 XX
 XX Example 2; Fig 3; 42pp; English.
 PS
 XX The sequence represents a portion of the P6 region of the Group I
 CC ribozyme joined to the anti-theophylline aptamer by a short randomized
 CC region to generate a pool of aptazymes of the present invention. The
 CC invention relates to a novel aptazyme construct comprising a regulatable
 CC Group I intron aptamer oligonucleotide sequence having an allosterically
 CC regulatable regulatory domain, where the kinetic parameters of the
 CC aptazyme on a target gene vary in response to the interaction of an
 CC allosteric effector molecule with the regulatory domain, and the intron

CC applying reaction occurs in vitro. The aptazyme is useful: (1) in assays
CC to detect the presence of ligands or to detect activation of an aptazyme
CC by an effector; (2) in the identification, isolation and enhancement of
CC allosteric effectors and of the allosterically regulatable aptazymes with
CC which they interact; (3) to activate or repress a reporter gene (e.g.
CC luciferase) containing an engineered intron in response to an endogenous
CC activator; and (4) to monitor intracellular levels of proteins or small
CC molecules such as cyclic AMP

XX
SQ Sequence 82 BP; 23 A; 21 C; 16 G; 0 T; 20 U; 2 Other;

Query Match 61.1%; Score 80; DB 1; Length 82;
Best Local Similarity 73.2%; Pred. No. 2,7e-05;
Matches 60; Conservative 20; Mismatches 2; Indels 0; Gaps 0;

QY 37 TAAACGGGGAACCTCTAGTAGACAATCCCGTGAATTAATACAGACATCGTTTAAAT 96
DB 1 UAAACGGGGAACCTCTAGTAGACAATCCCGTGAATTAATACAGACATCGTTTAAAT 60
QY 97 GCCCTTGGCAGATTAATGCTTA 118
DB 61 GCCCTUGGCAAGTAATTAAGCCUA 82

RESULT 7
AAL43048
ID AAL43048 standard; DNA; 94 BP.
XX
AC AAL43048;
XX
DT 25-SEP-2002 (first entry)
XX
DE Regulatable, catalytically active nucleic acid construction oligo #7.
XX
KM Regulatable catalytically active nucleic acid; RCANA; ribozyme;
XX gene therapy; ds.
XX
OS Synthetic.
XX
PN WO200196559-A2.
XX
PD 20-DEC-2001.
XX
PF 14-JUN-2001; 2001WO-US019302.
XX
PR 15-JUN-2000; 2000US-0212097P.
XX
PA (TEXA) UNIT TEXAS SYSTEM.
PI Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L;
PI Davidson E, Cox JC, Reidel T;
XX
DR WPI; 2002-122216/16.
XX
PT New regulatable, catalytically active nucleic acids (RCANA), useful in
PT gene therapy (particularly for regulating gene expression), or in assays
PT for detecting the presence of ligands or activation of an effector of
PT RCANA.
XX
PS Example 5; Page 68; 126pp; English.
XX
CC The present invention relates to regulatable, catalytically active
CC nucleic acids (RCANAs) which are regulated by polypeptides. These are
CC useful for regulating gene expression, in assays for detecting the
CC presence of ligands, for activation of an effector of RCANA, and in gene
CC therapy. The present sequence is an oligonucleotide used in the
CC construction of an RCANA

XX
SQ Sequence 94 BP; 27 A; 23 C; 17 G; 27 T; 0 U; 0 Other;

Query Match 58.0%; Score 76; DB 1; Length 94;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTGAGTAAAGGAGTACTTATCTATCTAATTAACGGGGAACCTCTAGTAGA 60
DB 1 GCCTGAGTAAAGGAGTACTTATCTATCTAATTAACGGGGAACCTCTAGTAGA 60
QY 61 CAATCCCGTGTAAAT 76
DB 61 CAATCCCGTGTAAAT 76

RESULT 8
ADA39564
ID ADA39564 standard; DNA; 94 BP.
XX
AC ADA39564;
XX
DT 20-NOV-2003 (first entry)
XX
DE RCANA construction related oligonucleotide SEQ ID NO:20.
XX
KM regulatable catalytically active nucleic acid; RCANA; catalytic domain;
XX regulation; screening; gene therapy; biological pathway regulation;
XX regulatory element; metabolic pathway; ribozyme; ss.
XX
OS Synthetic.
XX
PN WO2003027310-A2.
XX
PD 03-APR-2003.
XX
PF 24-SEP-2002; 2002WO-US030458.
XX
PR 24-SEP-2001; 2001US-0324715P.
XX
PA (ARCH-) ARCHEMIX CORP.
PI Wilson C, Cload ST, Keefe AD;
XX
DR WPI; 2003-354657/33.
XX
PT Regulatable production of a product in a cell, comprises inserting a
PT regulatable catalytically active nucleic acid into a gene that produces
PT the product or regulates the production of the product in the cell.
XX
PS Example 5; Page 70; 126pp; English.
XX
CC The present invention describes a method for regulating production of a
CC product in a cell. The method comprises inserting a regulatable
CC catalytically active nucleic acid (RCANA) into a gene that produces the
CC product or regulates the production of the product in the cell, where the
CC RCANA comprises a catalytic domain which modifies a transcript to alter
CC its coding potential and a regulatory domain that recognizes an effector
CC that alters the function of the catalytic domain, and contacting the
CC regulatory domain with an effector to regulate production of the product.
CC Also described: (1) regulating a biological pathway in cell; and (2)
CC screening a population of cells for a cell that produces a bioproduct.
CC The methods are useful for regulating a biological pathway in cell, or
CC regulatory production of a product in a cell. The RCANAs are useful as
CC pathway, or as regulated selectable markers to increase a selective
CC pressure favouring or disfavouring production of a targeted bioproduct.
CC The RCANAs are also useful for in vitro or in vivo sensing or detection,
CC and in gene therapy. The present sequence represents an oligonucleotide
CC used in the construction of an RCANA, which is used in an example from
CC the present invention.

XX
SQ Sequence 94 BP; 27 A; 23 C; 17 G; 27 T; 0 U; 0 Other;

Query Match 58.0%; Score 76; DB 1; Length 94;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTGAGTAAAGGAGTACTTATCTATCTAATTAACGGGGAACCTCTAGTAGA 60

```

Db      1 GCGTAGATAAAGTAGACTTACTGTATCTATCTAAACGGGAACTCTCTAGTAGA 60
QY      61 CATCCCGTCTAAAT 76
        |||
Db      61 CAATCCCGTCTAAAT 76

RESULT 9
ADQ96955 standard; DNA; 94 BP.
XX
AC      ADQ96955;
XX
DT      23-SEP-2004 (first entry)
XX
XX      RCANA GPRTH1P6 mutagenic oligonucleotide B11.
XX
XX      RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;
XX      aptamer; effector domain; nucleic acid catalyst domain; gene therapy;
XX      industrial biosynthesis; bioremediation; bacteriophage T4;
XX      thymidylate synthase; self-splicing intron.
XX
OS      Enterobacteria phage T4.
XX      Synthetic.
XX
PN      US2004126882-A1.
XX
PD      01-JUL-2004.
XX
PF      24-SEP-2002; 2002US-00254568.
XX
XX      15-JUN-2000; 2000US-0212097P.
XX      14-SEP-2000; 2000US-00661658.
XX      20-SEP-2000; 2000US-00666870.
XX      14-JUN-2001; 2001US-00883119.
XX      24-SEP-2001; 2001US-0324715P.
XX
XX      (ELLI/) ELLINGTON A D.
XX      (HESS/) HESSELBERTH J.
XX      (THOM/) THOMPSON K.
XX      (ROBE/) ROBERTSON M P.
XX      (SOOT/) SOOTER L.
XX      (DAVI/) DAVIDSON E.
XX      (COXJ/) COX J C.
XX      (RIED/) RIEDEL T.
XX      (WILS/) WILSON C.
XX      (CLOA/) CLOAD S T.
XX      (KEEF/) KEEFE A D.
XX
PI      Ellington AD, Hesselberth J, Thompson K, Robertson MP, Sooter L,
PI      Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;
XX
XX      WPI, 2004-560517/54.
XX
XX      Novel regulatable, catalytically active nucleic acid comprising effector
XX      domain, and catalyst domain which comprises randomized catalytic residues
XX      and is regulated by effector that interacts with effector domain.
XX
XX      Example 5; SEQ ID NO 20; 78bp; English.
XX
XX      The invention relates to a regulatable, catalytically active nucleic acid
XX      (RCANA) segment comprising an effector domain and a nucleic acid catalyst
XX      domain in which one or more critical catalytic residues of the nucleic
XX      acid catalyst have been randomized, where the kinetic parameters of the
XX      catalytic domain are regulated by an effector that interacts with the
XX      effector domain. Also included are a nucleic acid comprising a gene, a
XX      RCANA inserted within the gene (where the presence of an effector causes
XX      the nucleic acid to catalyze a reaction), isolating an RCANA (comprising
XX      a catalytic and an effector domain involving randomising at least one
XX      nucleotide in the catalytic domain of a catalytically active nucleic acid
XX      to create a nucleic acid pool, removing from the nucleic acid pool those
XX      nucleic acids that interact with the catalytic target of the catalytic

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CC      domain, adding an effector molecule to the nucleic acids and isolating
CC      those nucleic acids that interact with the catalytic target of the
CC      catalytic domain), detection of a target using a RCANA, modifying a
CC      target using a RCANA (involving providing a RCANA capable of target-
CC      specific modification and modifying the target under conditions that
CC      cause a RCANA-specific activity), selecting an RCANA and detecting an
CC      RCANA (involving isolating an RCANA, creating a construct in which the
CC      nucleic acid is in position to regulate the expression of a reporter
CC      gene, introducing the construct into a host cell and measuring the
CC      catalytic activity of the nucleic acid upon exposure of the host cell to
CC      the effector. The RCANA is useful for regulating production of a product
CC      in a cell (by gene therapy) which involves inserting into a gene that
CC      produces the product or regulates the production of the product in the
CC      cell an RCANA which comprises a catalytic domain, that modifies a
CC      transcript to alter its coding potential, and a regulatory domain which
CC      recognises an effector that alters the function of the catalytic domain,
CC      contacting the regulatory domain with an effector thereby regulating
CC      production of the product. The concentration of the effector modulates
CC      the activity of the catalytic domain of the RCANA. The production of the
CC      product is fully inhibited or is increased compared to a normal control
CC      level, or is partially inhibited according to the concentration of the
CC      effector. The RCANA blocks or activates expression of the gene. The
CC      effector is the product, where it accesses feedback inhibitor of the
CC      gene. The product is produced in a metabolic pathway that is being
CC      regulated, and the effector or the product is an intermediate in a
CC      metabolic pathway. The effector is endogenous or exogenous to the cell.
CC      The effector is an end product of a biosynthetic process. The effector or
CC      the product is chosen from protein, enzyme, protein pharmaceutical,
CC      metabolite, drug, dye, vitamin, food additive, chemical additive,
CC      pesticide, insecticide, feed compound, and a waste product. The drug is
CC      chosen from antibiotics, anticancer drugs, antifungals, cholesterol-
CC      lowering drugs, and immunosuppressants. The RCANA is useful for
CC      regulating a biological pathway in a cell, for screening a population of
CC      cells for a cell that produces a bioproduct, for modulating expression of
CC      a nucleic acid, in gene therapy applications, and for facilitating
CC      industrial biosynthesis and bioremediation. The present sequence is an
CC      oligonucleotide used to mutate the catalytic region of an RCANA based on
CC      the bacteriophage T4 thymidylate synthase gene self-splicing intron.
XX
SQ      Sequence 94 BP; 27 A; 23 C; 17 G; 27 T; 0 U; 0 Other;

Query Match      58.0%; Score 76; DB 1; Length 94;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCGTAGATAAAGTAGACTTACTGTATCTATCTAAACGGGAACTCTCTAGTAGA 60
        |||
Db      1 GCGTAGATAAAGTAGACTTACTGTATCTATCTAAACGGGAACTCTCTAGTAGA 60
QY      61 CATCCCGTCTAAAT 76
        |||
Db      61 CAATCCCGTCTAAAT 76
        |||

RESULT 10
AAL43089
ID      AAL43089 standard; RNA; 45 BP.
XX
XX      AAL43089;
XX
XX      25-SEP-2002 (first entry)
XX
XX      Regulatable, catalytically active nucleic acid #21.
XX
XX      Regulatable catalytically active nucleic acid; RCANA; ribozyme;
XX      gene therapy; ss.
XX
XX      Unidentified.
XX
FH      Key      Location/Qualifiers
FT      misc_binding 4..8
FT      /tag= a
FT      /bound_moiety= "binds nucleotides 33-29 of itself"

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FT stem_loop 14..24
FT /tag= b
FT misc_binding 29..33
FT /tag= c
FT /bound_moiety= "binds nucleotides 8-4 of itself"
FT stem_loop 34..42
FT /tag= d
FT
FT WO200196559-A2.
FT
FT 20-DEC-2001.
FT
FT 14-JUN-2001, 2001WO-US019302.
FT
FT 15-JUN-2000, 2000US-0212097P.
FT
FT (TEXA ) UNIV TEXAS SYSTEM.
FT
FT Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L,
FT Davidson E, Cox JC, Reidel T;
FT
FT WPI, 2002-122216/16.
FT
FT New regulatable, catalytically active nucleic acids (RCANA), useful in
FT gene therapy (particularly for regulating gene expression), or in assays
FT for detecting the presence of ligands or activation of an effector of
FT RCANA.
FT
FT Example 5; Fig 25B; 126bp; English.
FT
FT The present invention relates to regulatable, catalytically active
FT nucleic acids (RCANAs) which are regulated by polypeptides. These are
FT useful for regulating gene expression, in assays for detecting the
FT presence of ligands, for activation of an effector of RCANA, and in gene
FT therapy. The present sequence is an RCANA described in the
FT exemplification of the invention
FT
FT Sequence 45 BP; 14 A; 12 C; 9 G; 0 T; 10 U; 0 Other;
FT
FT Query Match 30.5%; Score 40; DB 1; Length 45;
FT Best Local Similarity 77.5%; Pred. No. 0.18;
FT Matches 31; Conservative 9; Mismatches 0; Indels 0; Gaps 0;
FT
FT 37 TAAACGGAGAACCTCTAGTACACATCCCGCGCTAAAT 76
FT :|||||:|||||:|||||:|||||:|||||:|||||:
FT 1 UAAACGGAGAACCTCTAGTACACATCCCGCGCTAAAU 40
FT
FT RESULT 11
FT ID ADQ96996 standard; RNA; 45 BP.
FT
FT ADQ96996;
FT
FT 23-SEP-2004 (first entry)
FT
FT Theophylline-dependent group I intron RCANA B11.
FT
FT RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;
FT aptamer; effector domain; nucleic acid catalyst domain; gene therapy;
FT industrial biosynthesis; bioremediation; bacteriophage T4;
FT chymidylate synthase; self-splicing intron.
FT
FT Enterobacteria phage T4.
FT Synthetic.
FT
FT Key Location/Qualifiers
FT misc_binding 4..8
FT /tag= a
FT /bound_moiety= "Bases 33-29 of the present sequence"
FT stem_loop 14..24
FT /tag= b
FT misc_binding 29..33

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FT /tag= c
FT /bound_moiety= "Bases 8-4 of the present sequence"
FT stem_loop 34..42
FT /tag= d
FT
FT US2004126882-A1.
FT
FT 01-UTL-2004.
FT
FT 24-SEP-2002; 2002US-00254568.
FT
FT 15-JUN-2000; 2000US-0212097P.
FT
FT 14-SEP-2000; 2000US-00661658.
FT
FT 20-SEP-2000; 2000US-00666870.
FT
FT 14-JUN-2001; 2001US-00883119.
FT
FT 24-SEP-2001; 2001US-0324715P.
FT
FT (ELLI) ELLINGTON A D.
FT (HES/) HESSELBERTH J.
FT (THOM) THOMPSON K.
FT (ROBE) ROBERTSON M P.
FT (SOOT) SOOTER L.
FT (DAVI) DAVIDSON E.
FT (COXJ) COX J C.
FT (RIED) RIEDEL T.
FT (WILS) WILSON C.
FT (CLOA) CLOAD S T.
FT (KEEF) KEEFE A D.
FT
FT Ellington AD, Hesselberth J, Thompson K, Robertson MP, Sooter L,
FT Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;
FT
FT WPI, 2004-560517/54.
FT
FT Novel regulatable, catalytically active nucleic acid comprising effector
FT domain, and catalyst domain which comprises randomized catalytic residues
FT and is regulated by effector that interacts with effector domain.
FT
FT Example 5; SEQ ID NO 64; 78bp; English.
FT
FT The invention relates to a regulatable, catalytically active nucleic acid
FT (RCANA) segment comprising an effector domain and a nucleic acid catalyst
FT domain in which one or more critical catalytic residues of the nucleic
FT acid catalyst have been randomised, where the kinetic parameters of the
FT catalytic domain are regulated by an effector that interacts with the
FT effector domain. Also included are a nucleic acid comprising a gene, a
FT RCANA inserted within the gene (where the presence of an effector causes
FT the nucleic acid to catalyse a reaction), isolating an RCANA (comprising
FT a catalytic and an effector domain involving randomising at least one
FT nucleotide in the catalytic domain of a catalytically active nucleic acid
FT to create a nucleic acid pool, removing from the nucleic acid pool those
FT nucleic acids that interact with the catalytic target of the catalytic
FT domain, adding an effector molecule to the nucleic acids and isolating
FT those nucleic acids that interact with the catalytic target of the
FT catalytic domain), detection of a target using a RCANA, modifying a
FT target using a RCANA (involving providing a RCANA capable of target-
FT specific modification and modifying the target under conditions that
FT cause a RCANA-specific activity), selecting an RCANA and detecting an
FT RCANA (involving isolating an RCANA, creating a construct in which the
FT nucleic acid is in position to regulate the expression of a reporter
FT gene, introducing the construct into a host cell and measuring the
FT catalytic activity of the nucleic acid upon exposure of the host cell to
FT the effector. The RCANA is useful for regulating production of a product
FT in a cell (by gene therapy) which involves inserting into a gene that
FT produces the product or regulates the production of the product in the
FT cell an RCANA which comprises a catalytic domain, that modifies a
FT transcript to alter its coding potential, and a regulatory domain which
FT recognises an effector that alters the function of the catalytic domain,
FT contacting the regulatory domain with an effector thereby regulating
FT production of the product. The concentration of the effector modulates
FT the activity of the catalytic domain of the RCANA. The production of the
FT product is fully inhibited or is increased compared to a normal control
FT level, or is partially inhibited according to the concentration of the
FT

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CC candidate mixture and the isolated nucleic acids are amplified to yield a
CC ligand-enriched mixture of nucleic acids, in which the nucleic acid
CC ligands can be identified. The isolated ligands may be used as
CC pharmaceuticals, diagnostic agents and in gene therapy. The ligands may
CC be RNA or DNA molecules. (Updated on 25-MAR-2003 to correct PN field.)
XX

80 Sequence 42 BP; 10 A; 12 C; 9 G; 0 T; 11 U; 0 Other;

Query Match 24.3%; Score 31.8; DB 1; Length 42;

Best Local Similarity 68.6%; Pred. No. 1.1;
Matches 24; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 73 AATTATACGAGTCGCTGTGATGCCCTTGCGAG 107
||:|||||:|||||:|||||:|||||:|||||
Db 1 AAGUGAACCGACGACGUCGUCGAGCCGCGAG 35

RESULT 14

AAK90663
ID AAK90663 standard; RNA; 38 BP.

XX AAK90663;

DT 07-OCT-1999 (first entry)

DE Short RNA aptamer to regulate translation of Epo protein.

XX RNA aptamer; inserted; Epo gene; pVITLMEpo vector; bind specifically;
XX high affinity; theophylline; non toxic ligand; translational control;
XX Epo protein expression; regulated; ligand treatment; ds.
OS Synthetic.

XX WO936511-A2.

XX 22-JUL-1999.

XX 19-JAN-1999; 99WO-US001194.

XX 16-JAN-1998; 98US-0071731P.

XX 26-MAY-1998; 98US-0086825P.

XX 04-JAN-1999; 99US-0114955P.

XX 15-JAN-1999; 99US-00231235.

XX (CHIR) CHIRON CORP.

PI Johnston JC, Sauter SL, Hsu D, Sheridan PL, Hardy SF;

PI Dubensky TW, Yee J;

DR WPI; 1999-444391/37.

XX New feline immunodeficiency virus vectors containing heterologous DNA
XX sequences for gene therapy in transformed hosts.

PS Example 21A; Page 137; 170pp; English.

CC The present sequence is that of a short RNA aptamer which is inserted
CC into the 5' untranslated region of the Epo gene in the pVITLMEpo vector.
CC This aptamer is designed to bind specifically and with high affinity to
CC theophylline, a soluble, cell permeable, non toxic ligand, and will
CC result in the translational control of Epo protein expression being
CC specifically induced and regulated following ligand treatment and binding
CC
XX Sequence 38 BP; 8 A; 11 C; 9 G; 0 T; 10 U; 0 Other;

Query Match 23.5%; Score 30.8; DB 1; Length 38;

Best Local Similarity 67.6%; Pred. No. 1.4;
Matches 23; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 74 AATTATACGAGTCGCTGTGATGCCCTTGCGAG 107
||:|||||:|||||:|||||:|||||:|||||
Db 1 AAGUGAACCGACGACGUCGUCGAGCCGCGAG 34

RESULT 15

AAQ89171
ID AAQ89171 standard; RNA; 38 BP.

XX AAQ89171;

DT 25-MAR-2003 (revised)

DT 16-JAN-1996 (first entry)

DE Theophylline affinity mini-RNA molecule, mTCR8-4.

XX Nucleic acid; ligand; thrombin; elastase; theophylline; caffeine;
XX pharmaceutical; diagnosis; vascular endothelial growth factor;
XX gene therapy; RNA; DNA; ss.

XX Synthetic.

XX Key Location/Qualifiers

FT misc_feature 1..4 /tag= a

FT /note= "bases pair with bases at positions 35-38"

FT misc_feature 8..10 /tag= b

FT /note= "bases pair with bases at positions 29-31"

FT misc_feature 11..16 /tag= c

FT /note= "bases pair with bases at positions 20-25"

XX WO9507364-A1.

XX 16-MAR-1995.

XX 08-SEP-1994; 94WO-US010306.

XX 08-SEP-1993; 93US-00117991.

XX 07-OCT-1993; 93US-00134028.

XX 22-FEB-1994; 94US-00199507.

XX 25-APR-1994; 94US-00233012.

XX 28-APR-1994; 94US-00234997.

XX (NEXA-) NEXAGEN INC.

XX Gold L, Pieken W, Tasset D, Janjic N, Kirschenheuer GP;

PI Polisky B, Dayasena S, Biesecker G, Smith D, Jensen RD;

DR WPI; 1995-123436/16.

XX Identifying nucleic acid ligands for target molecules - by partitioning
XX increased affinity nucleic acids from a candidate mixt. and amplifying.

PS Example 26; Fig 52; 251pp; English.

CC This sequence represents a nucleic acid ligand to theophylline. This
CC ligand was constructed from the conserved domains of larger theophylline
CC ligands and a limited flanking sequence. These ligands were identified
CC using the method of the invention. The method comprises contacting a
CC candidate mixture with the target molecule (i.e. theophylline) where the
CC nucleic acids which have an increased affinity to the target relative to
CC the candidate mixture may be partitioned from the remainder of the
CC candidate mixture. The increased affinity nucleic acids are partitioned
CC from the remainder of the candidate mixture and the isolated nucleic
CC acids are amplified to yield a ligand-enriched mixture of nucleic acids,
CC in which the nucleic acid ligands can be identified. The isolated ligands
CC may be used as pharmaceuticals, diagnostic agents and in gene therapy.
CC The ligands may be RNA or DNA molecules. (Updated on 25-MAR-2003 to
CC correct PN field.)

XX Sequence 38 BP; 7 A; 12 C; 10 G; 0 T; 9 U; 0 Other;

Query Match 23.2%; Score 30.4; DB 1; Length 38;

Best Local Similarity 68.8%; Pred. No. 1.5;
Matches 22; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

DT 20-NOV-2003 (first entry)
 XX RCANA construction related oligonucleotide SEQ ID NO:18.
 DE
 XX regulatable catalytically active nucleic acid; RCANA; catalytic domain;
 KM regulation; screening; gene therapy; biological pathway regulation;
 KM regulatory element; metabolic pathway; ribozyme, ss.
 XX
 OS Synthetic.
 XX
 XX WO2003027310-A2.
 PN
 XX
 PD 03-APR-2003.
 XX
 XX 24-SEP-2002; 2002WO-US030458.
 PF
 XX 24-SEP-2001; 2001US-0324715P.
 PR
 XX (ARCH-) ARCHEMIX CORP.
 PA
 XX Wilson C, Cload ST, Keefe AD;
 PI WPI; 2003-354657/33.
 DR
 XX
 XX
 PT Regulating production of a product in a cell, comprises inserting a
 PT regulatable catalytically active nucleic acid into a gene that produces
 PT the product or regulates the production of the product in the cell.
 PS
 XX Example 5; Page 69; 128pp; English.
 CC The present invention describes a method for regulating production of a
 CC product in a cell. The method comprises inserting a regulatable
 CC catalytically active nucleic acid (RCANA) into a gene that produces the
 CC product or regulates the production of the product in the cell, where the
 CC RCANA comprises a catalytic domain which modifies a transcript to alter
 CC its coding potential and a regulatory domain that recognises an effector
 CC that alters the function of the catalytic domain, and contacting the
 CC regulatory domain with an effector to regulate production of the product.
 CC Also described: (1) regulating a biological pathway in cell; and (2)
 CC screening a population of cells for a cell that produces a bioproduct.
 CC The methods are useful for regulating a biological pathway in cell, or
 CC regulating production of a product in a cell. The RCANA are useful as
 CC regulatory elements to control the expression of genes in a metabolic
 CC pathway, or as regulated selectable markers to increase a selective
 CC pressure favouring or disfavouring production of a targeted bioproduct.
 CC The RCANA are also useful for in vitro or in vivo sensing or detection,
 CC and in gene therapy. The present sequence represents an oligonucleotide
 CC used in the construction of an RCANA, which is used in an example from
 CC the present invention.
 XX
 XX Sequence 24 BP; 9 A; 4 C; 2 G; 9 T; 0 U; 0 Other;
 SQ
 Query Match 17.4%; Score 22.4; DB 1; Length 24;
 Best Local Similarity 95.8%; Pred. No. 10;
 Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 19 TTATACTGTATCTATCTAAACG 42
 DB 1 TTATACTAGTATCTATCTAAACG 24
 RESULT 19
 ADQ96953
 ID ADQ96953 standard; DNA; 24 BP.
 XX
 XX ADQ96953,
 XX
 XX 23-SEP-2004 (first entry)
 XX
 XX RCANA GPTTH1P6 PCR primer #3.
 DE
 XX RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;
 KM aptamer; effector domain; nucleic acid catalyst domain; gene therapy;

KM industrial biosynthesis; bioremediation; PCR; primer.
 XX
 XX Enterobacteria phage T4.
 OS Synthetic.
 XX
 XX US2004126882-A1.
 PN
 XX
 PD 01-JUL-2004.
 XX
 XX 24-SEP-2002; 2002US-00254568.
 PF
 XX
 XX 15-JUN-2000; 2000US-0212097P.
 PR 14-SEP-2000; 2000US-00661658.
 PR 20-SEP-2000; 2000US-00668870.
 PR 14-JUN-2001; 2001US-00883119.
 PR 24-SEP-2001; 2001US-0324715P.
 XX
 XX (ELLI/) ELLINGTON A D.
 PA (HESS/) HESSELBERTH J.
 PA (THOM/) THOMPSON K.
 PA (ROBE/) ROBERTSON M P.
 PA (SOOT/) SOOTER L.
 PA (DAVI/) DAVIDSON E.
 PA (COXJ/) COX J C.
 PA (RIED/) RIEDEL T.
 PA (WILS/) WILSON C.
 PA (CLOM/) CLOAD S T.
 PA (KEEF/) KEEFE A D.
 XX
 XX Ellington AD, Hesselberth J, Thompson K, Robertson MP, Sooter L,
 PI Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;
 XX WPI; 2004-560517/54.
 DR
 XX
 XX Novel regulatable, catalytically active nucleic acid comprising effector
 PT domain, and catalyst domain which comprises randomized catalytic residues
 PT and is regulated by effector that interacts with effector domain.
 PT
 XX Example 5; SEQ ID NO 18; 78pp; English.
 PS
 XX The invention relates to a regulatable, catalytically active nucleic acid
 XX (RCANA) segment comprising an effector domain and a nucleic acid catalyst
 CC domain in which one or more critical catalytic residues of the nucleic
 CC acid catalyst have been randomised, where the kinetic parameters of the
 CC catalytic domain are regulated by an effector that interacts with the
 CC effector domain. Also included are a nucleic acid comprising a gene, a
 CC RCANA inserted within the gene (where the presence of an effector causes
 CC the nucleic acid to catalyse a reaction), isolating an RCANA (comprising
 CC a catalytic and an effector domain involving randomising at least one
 CC nucleotide in the catalytic domain of a catalytically active nucleic acid
 CC to create a nucleic acid pool, removing from the nucleic acid pool those
 CC nucleic acids that interact with the catalytic target of the catalytic
 CC domain, adding an effector molecule to the nucleic acids and isolating
 CC those nucleic acids that interact with the catalytic target of the
 CC catalytic domain). detection of a target using a RCANA, modifying a
 CC target using a RCANA (involving providing a RCANA capable of target-
 CC specific modification and modifying the target under conditions that
 CC cause a RCANA-specific activity), selecting an RCANA and detecting an
 CC RCANA (involving isolating an RCANA, creating a construct in which the
 CC nucleic acid is in position to regulate the expression of a reporter
 CC gene, introducing the construct into a host cell and measuring the
 CC catalytic activity of the nucleic acid upon exposure of the host cell to
 CC the effector. The RCANA is useful for regulating production of a product
 CC in a cell (by gene therapy) which involves inserting into a gene that
 CC produces the product or regulates the production of the product in the
 CC cell an RCANA which comprises a catalytic domain, that modifies a
 CC transcript to alter its coding potential, and a regulatory domain which
 CC recognises an effector that alters the function of the catalytic domain,
 CC contacting the regulatory domain with an effector thereby regulating
 CC production of the product. The concentration of the effector modulates
 CC the activity of the catalytic domain of the RCANA. The production of the
 CC product is fully inhibited or is increased compared to a normal control
 CC level, or is partially inhibited according to the concentration of the

XX 20-FEB-2003 (first entry)
DT
XX
DE DPP10 PCR primer #8.
XX
XX DPP10; dipeptidyl peptidase; prolyloligopeptidase; enzyme; ashma;
KM antiinflammatory; antiasthmatic; antipneumonia; antiarthritic;
KM antiinflammatory; vaccine; gene therapy; inflammatory disease;
KM inflammatory bowel disease; atopy; rheumatoid arthritis; psoriasis;
XX chromosome 2q14; PCR primer; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX WO200286113-A2.
XX
XX 31-OCT-2002.
XX
XX 24-APR-2002; 2002WO-GB001887.
XX
XX 24-APR-2001; 2001GB-00010044.
XX 24-APR-2001; 2001GB-00010046.
XX 12-OCT-2001; 2001GB-00024575.
XX 12-OCT-2001; 2001GB-00024594.
XX
XX (ISIS-) ISIS INNOVATIONS LTD.
XX
XX Cookson WOCM, Moffat MF, Allen M, Lench N;
XX WPI; 2003-093132/08.
XX
XX New nucleic acid sequence comprising DPP10 mRNA, useful for the
PT manufacture of a medicament for regulating DPP10 protein expression or
PT for preventing or treating inflammatory disease e.g., inflammatory bowel
PT disease.
XX
XX Claim 43; Page 313; 321pp; English.
XX
XX The present invention describes a new isolated nucleic acid sequence (I)
CC comprising a DPP10 mRNA sequence. DPP10 is a dipeptidyl peptidase (also
CC known as prolyloligopeptidase). (I) has antiinflammatory, antiasthmatic,
CC antipneumonia, antiarthritic and antirheumatic activities, and can be
CC used in vaccines and gene therapy. A composition comprising (I) can be
CC used for the manufacture of a medicament for regulating DPP10 expression
CC or for preventing or treating inflammatory disease e.g., inflammatory
CC bowel disease, ashma, atopy, rheumatoid arthritis or psoriasis. (I) can
CC also be used in an assay for detecting or measuring DPP10 in a sample. A
CC host cell comprising (I) can be used for producing recombinant DPP10 gene
CC products, or in drug screening systems to identify agents for diagnosis
CC or treatment of individuals having or susceptible to inflammatory
CC disease. Human DPP10 is located on chromosome 2, more specifically
CC chromosome 2q14. ABQ84254 to ABQ84612 and ABP55569 to ABP55629 represent
CC sequences used in the exemplification of the present invention
XX
XX Sequence 20 BP; 4 A; 5 C; 3 G; 8 T; 0 U; 0 Other;
SQ
Query Match 12.1%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 3 CTGAGTATAAGTGACTTA 21
DB 19 CTGAGTATAAGTGACTTA 1
RESULT 22
ABQ77191/c
ID ABQ77191 standard; DNA; 20 BP.
XX
XX ABQ77191;
XX
XX 24-APR-2003 (first entry)
XX

DE Human ABCC12 exon 15/Intron 15 boundary (short isoform).
XX
XX Adenosine triphosphate (ATP)-binding cassette transporter subfamily C12;
KM cystic fibrosis transmembrane conductance regulator; human; CTRR/MRP;
KM multidrug resistance-like subgroup; somatic gene therapy; ABCC12;
KM paroxysmal kinesigenic choreoathetosis; cysteinyl leukotriene;
KM anionic drug; methotrexate; neutral drug; glutathione; glucuronate;
XX sulphate conjugated drug; ds.
XX
OS Homo sapiens.
XX
XX WO200285943-A2.
XX
XX 31-OCT-2002.
XX
XX 05-MAR-2002; 2002WO-EP003320.
XX
XX 05-MAR-2001; 2001US-0272759P.
XX
XX (AVER) AVENTIS PHARMA SA.
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Rosier-Montus M, Prades C, Arnould-Reguigne I, Deneffe P, Dean M;
XX Allkmets R;
XX WPI; 2003-093101/08.
XX
XX New ATP-binding cassette transporter gene subfamily C12, ABCC12
PT polypeptide, useful for preventing or treating paroxysmal kinesigenic
PT choreoathetosis.
XX
XX Disclosure; Page 44; 122pp; English.
XX
XX This invention describes a novel human ABCC12 (adenosine triphosphate
CC (ATP)-binding cassette transporter gene subfamily C12, i.e., cystic
CC fibrosis transmembrane conductance regulator/multidrug resistance-like
CC subgroup (CTRR/MRP) family) polypeptide and its encoding polynucleotides
CC The polypeptide is useful for screening agonists and antagonist of the
CC ABCC12 polypeptide. The products of the invention are useful for
CC screening an active ingredient for preventing and treating paroxysmal
CC kinesigenic choreoathetosis or pathologies linked to dysfunction of
CC transport of organic anion transporters such as cysteinyl leukotriene,
CC anionic drugs, such as methotrexate, neutral drugs conjugated to acidic
CC ligands, such as glutathione, glucuronate or sulphate conjugated drugs
CC and can be used for somatic gene therapy. This sequence represents a
CC region corresponding to an exon/intron boundary from the gene encoding a
XX human ABCC12 isoform described in the disclosure of the invention
XX
XX Sequence 20 BP; 6 A; 2 C; 7 G; 5 T; 0 U; 0 Other;
SQ
Query Match 11.8%; Score 15.4; DB 1; Length 20;
Best Local Similarity 94.1%; Pred. No. 45;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 75 ATTATACGACATCGTC 91
DB 17 ATTATACGACATCTTC 1
RESULT 23
AAV01286
ID AAV01286 standard; DNA; 20 BP.
XX
XX AAV01286;
XX
XX 23-MAR-1998 (first entry)
XX
XX Skeletal muscle sodium channel PCR primer for universal mammalian STS.
XX
XX PCR primer; polymerase chain reaction; amplification; UM-STs;
XX universal mammalian sequence tagged site; genomic map; clone; ss.
XX
XX Synthetic.
OS


```
XX Niyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX WPI; 2003-093058/08.
XX
XX Pharmacological composition for treating asthma, has antisense
PT oligonucleotide containing less percentage of adenosine, targeted to
PT nucleic acids associated with lung airway or lung dysfunction, and
PT bronchodilating agent.
XX
XX Claim 15; SEQ ID NO 1686; 763bp; English.
XX
XX This invention describes a novel composition (a) a first active agent,
XX comprising oligonucleotides, effective for alleviating
XX bronchoconstriction, respiratory tract inflammation, allergies and
XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
XX surfactant depletion or hyposecretion, when administered to a mammal. The
XX oligonucleotides are derived from a gene encoding or regulating
XX expression of a target polypeptide associated with lung airway or lung
XX dysfunction or cancer and can be anti-sense to the corresponding mRNA.
XX The invention also describes a kit, that comprises: (a) a delivery
XX device, in separate containers, (b) the oligonucleotides, (c)
XX instructions for adding a carrier and for use of the kit. The composition
XX of the invention has anti-allergic, anti-inflammatory, antiasthmatic,
XX analgesic, hypotensive, immunosuppressive and cyostatic activity, is a
XX beta-adrenergic agonist. The composition is useful for preventing or
XX treating a respiratory, lung or malignant disease. The administered
XX composition comprises oligo and is administered to reduce the production
XX or availability, or to increase the degradation of the target mRNA or to
XX reduce the amount of target polypeptide present in the lungs. The
XX pulmonary obstruction, and/or bronchoconstriction and/or lung
XX inflammation, allergies and/or surfactant hypoproduction are associated
XX with a disease or condition such as pulmonary vasoconstriction,
XX inflammation, allergies, asthma, impeded respiration, respiratory
XX hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
XX transplantation rejection, pulmonary infections, bronchitis or cancer.
XX The reduced adenosine content of the anti-sense oligos corresponding to
XX thymidines present in the target RNA serves to prevent the breakdown of
XX the oligonucleotides into products that free adenosine into the system
XX e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
XX prevent any unwanted effects due to it
XX
XX Sequence 20 BP; 6 A; 4 C; 1 G; 9 T; 0 U; 0 Other;
SQ
Query Match 11.6%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 47;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 19 TTATACCTGTAATCTATCTA 38
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TTATACCTGTAATCTATCCA 20
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
RESULT 26
ABN83051/c
ID ABN83051 standard; RNA; 82 BP.
XX
XX ABN83051;
XX
XX 16-AUG-2002 (first entry)
XX
XX Gp1Th1P6.131 aptamer construct.
XX
XX Aptazyme; regulatable; aptamer; luciferase; cyclic AMP; ss; Gp1Th1P6.131.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX key misc_binding 4..9
XX FT /tag= a
XX FT /bound_molecy= "Bases 33-28"
XX FT
```

```
FT stem_loop 14..24
FT /tag= b
FT misc_binding 28..33
FT /tag= c
FT /bound_molecy= "Bases 9-4"
FT misc_binding 34..35
FT /tag= c
FT /bound_molecy= "Bases 79-78"
FT misc_binding 41
FT /tag= d
FT /bound_molecy= "Base 72"
FT misc_binding 45..46
FT /tag= e
FT /bound_molecy= "Bases 68-67"
FT stem_loop 48..62
FT /tag= f
FT misc_binding 67..68
FT /tag= g
FT /bound_molecy= "Bases 46-45"
FT misc_binding 72
FT /tag= h
FT /bound_molecy= "Base 41"
FT misc_binding 78..79
FT /tag= i
FT /bound_molecy= "Bases 35-34"
XX
XX WO200196541-A2.
XX
XX 20-DEC-2001.
XX
XX 15-JUN-2001; 2001WO-US019119.
XX
XX 15-JUN-2000; 2000US-00661658.
XX
XX (TEXA ) UNIV TEXAS.
XX
XX Ellington AD, Hesselberth J, Marshall K, Robertson M, Socter L;
PI Davidson E, Cox JC, Reidel T;
XX
XX WPI; 2002-090203/12.
XX
XX Aptazyme construct for detecting the presence of ligands, comprises a
PT regulatable Group I intron aptamer oligonucleotide with a regulatory
PT domain, and modulates their kinetic parameters in response to an
PT effector.
XX
XX Disclosure; Fig 2A; 42pp; English.
PS
XX The sequence represents the Gp1Th1P6.131 aptamer construct used in the
XX invention. The invention relates to a novel aptazyme construct comprising
XX a regulatable Group I intron aptamer oligonucleotide sequence having an
XX allosterically regulatable regulatory domain, where the kinetic
XX parameters of the aptazyme on a target gene vary in response to the
XX interaction of an allosteric effector molecule with the regulatory
XX domain, and the intron eliciting reaction occurs in vitro. The aptazyme is
XX useful: (1) in assays to detect the presence of ligands or to detect
XX activation of an aptazyme by an effector; (2) in the identification,
XX isolation and enhancement of allosteric effectors and of the
XX allosterically regulatable aptazymes with which they interact; (3) to
XX activate or repress a reporter gene (e.g. luciferase) containing an
XX engineered intron in response to an endogenous activator; and (4) to
XX monitor intracellular levels of proteins or small molecules such as
XX cyclic AMP
XX
XX Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;
SQ
Query Match 10.8%; Score 14.2; DB 1; Length 82;
Best Local Similarity 62.9%; Pred. No. 29;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 58 AGACATCCCGTGTAAATTATACGATCGTCT 92
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
DB 56 AGACATCGTGTGTATATATACGCGATGTCT 22
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
```

ID	AA143067/c	standard; RNA; 62 BP.
XX	AA143067;	
AC	25-SEP-2002	(first entry)
XX	Regulatable, catalytically active nucleic acid #2.	
DE	Regulatable, catalytically active nucleic acid; RCANA; ribozyme;	
XX	gene therapy; ss.	
KW	Unidentified.	
XX		
OS		
XX	Key	Location/Qualifiers
FT	misc_binding	4..8
FT		/*tag= a
FT		/bound_moiety= "binds nucleotides 33-29 of itself"
FT	stem_loop	14..24
FT		/*tag= b
FT		/bound_moiety= "binds nucleotides 8-4 of itself"
FT	misc_binding	29..33
FT		/*tag= c
FT		/bound_moiety= "binds nucleotides 68-67 of itself"
FT	misc_binding	34..35
FT		/*tag= d
FT		/bound_moiety= "binds nucleotides 79-78 of itself"
FT	misc_binding	41
FT		/*tag= e
FT		/bound_moiety= "binds nucleotide 72 of itself"
FT	misc_binding	45..46
FT		/*tag= f
FT		/bound_moiety= "binds nucleotides 68-67 of itself"
FT	stem_loop	48..62
FT		/*tag= g
FT		/bound_moiety= "binds nucleotides 46-45 of itself"
FT	misc_binding	67..68
FT		/*tag= h
FT		/bound_moiety= "binds nucleotide 41 of itself"
FT	misc_binding	72
FT		/*tag= i
FT		/bound_moiety= "binds nucleotide 41 of itself"
FT	misc_binding	78..79
FT		/*tag= j
FT		/bound_moiety= "binds nucleotides 35-34 of itself"
XX		
XX	WO200196559-A2.	
PN		
PD	20-DEC-2001.	
XX		
PP	14-JUN-2001; 2001KO-US019302.	
XX		
PR	15-JUN-2000; 2000US-0212097P.	
XX		
PA	(TEXA) UNIV TEXAS SYSTEM.	
XX		
P1	Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L;	
P1	Davidson E, Cox JC, Reidel T;	
XX		
DR	WPI; 2002-122216/16.	
XX		
PT	New regulatable, catalytically active nucleic acids (RCANA), useful in	
PT	gene therapy (particularly for regulating gene expression), or in assays	
PT	for detecting the presence of ligands or activation of an effector of	
PT	RCANA.	
XX		
PS	Example 1; Fig 2A; 126pp; English.	
XX		

```

CC therapy. The present sequence is an RCMA described in the
CC exemplification of the invention
XX
XX
SQ Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;
OY
Query Match 10.8%; Score 14.2; DB 1; Length 82;
Best Local Similarity 62.9%; Pred. No. 29;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
DB 56
58 AGACAAATCCCGTCTAAATTATACGACATGCT 92
||| ||| ||| ||| ||| ||| ||| ||| ||| |||
56 AGACGATGCTGTATATTATAGCAGCGGATGTCT 22

RESULT 28
AAL43090/C
ID AAL43090 standard; RNA; 82 BP.
XX
XX AAL43090;
AC
XX 25-SEP-2002 (first entry)
DT
XX
XX Reglatable, catalytically active nucleic acid #22.
DE
XX
XX Reglatable catalytically active nucleic acid; RCMA; ribozyme;
KM gene therapy; ss.
XX
XX Unidentified.
OS
XX
XX Key
PH Location/Qualifiers
FH 4..8
FT /*tag= a
FT /bound_moiety= "binds nucleotides 33-29 of itself"
FT 14..24
FT /*tag= b
FT 29..33
FT /*tag= c
FT /bound_moiety= "binds nucleotides 8-4 of itself"
FT 34..35
FT /*tag= d
FT /bound_moiety= "binds nucleotides 79-78 of itself"
FT 41
FT /*tag= e
FT /bound_moiety= "binds nucleotide 72 of itself"
FT 45..46
FT /*tag= f
FT /bound_moiety= "binds nucleotides 68-67 of itself"
FT 48..62
FT /*tag= g
FT 67..68
FT /*tag= h
FT /bound_moiety= "binds nucleotides 46-45 of itself"
FT 72
FT /*tag= i
FT /bound_moiety= "binds nucleotide 41 of itself"
FT 78..79
FT /*tag= j
FT /bound_moiety= "binds nucleotides 35-34 of itself"
XX
XX WO200196559-A2.
XX
XX 20-DEC-2001.
PD
XX
XX 14-JUN-2001; 2001WO-US019302.
PF
XX
XX 15-JUN-2000; 2000US-0212097P.
PR
XX
XX (TEXA ) UNIV TEXAS SYSTEM.
PA
XX
XX Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L,
PI Davidson E, Cox JC, Reidel T;
XX
XX WPI; 2002-122216/16.
OR

```

```
XX New regulatable, catalytically active nucleic acids (RCANA), useful in
PT gene therapy (particularly for regulating gene expression), or in assays
PT for detecting the presence of ligands or activation of an effector of
PT RCANA.
XX
XX Example 5; Fig 25B; 126pp; English.
XX
XX The present invention relates to regulatable, catalytically active
CC nucleic acids (RCANAs) which are regulated by polypeptides. These are
CC useful for regulating gene expression, in assays for detecting the
CC presence of ligands, for activation of an effector of RCANA, and in gene
CC therapy. The present sequence is an RCANA described in the
CC exemplification of the invention
XX
XX Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;
SQ
Query Match 10.8%; Score 14.2; DB 1; Length 82;
Best local Similarity 62.9%; Pred. No. 29;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 58 AGACAAATCCGCTGAATTATACAGCATGCTCT 92
Db 56 AGACGATGCTGTATATTAGACGCGATTGTCT 22
RESULT 29
ADQ96971/c ADQ96971 standard; RNA; 82 BP.
XX
XX ADQ96971;
AC ADQ96971;
XX
XX 23-SEP-2004 (first entry)
DT
XX
XX T4 theophylline-dependent intron-based RCANA GP1TH1P6.133 #1.
DE
XX
XX RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;
XX aptamer; effector domain; nucleic acid catalyst domain; gene therapy;
XX industrial biosynthesis; bioremediation; bacteriophage T4;
XX thymidylate synthase; self-splicing intron.
XX
XX Enterobacteria phage T4.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH
XX
XX misc_binding 4..8
PT /tag= a
PT /bound_molecy= "Bases 33-29 of the present sequence"
XX
XX stem_loop 14..24
PT /tag= b
PT /tag= c
XX
XX misc_binding 29..33
PT /tag= c
PT /bound_molecy= "Bases 8-4 of the present sequence"
XX
XX misc_binding 34..35
PT /tag= d
PT /bound_molecy= "Bases 79-78 of the present sequence"
XX
XX misc_binding 41
PT /tag= e
PT /bound_molecy= "Base 72 of the present sequence"
XX
XX misc_binding 45..46
PT /tag= f
PT /bound_molecy= "Bases 68-67 of the present sequence"
XX
XX stem_loop 48..62
PT /tag= g
PT /tag= h
XX
XX misc_binding 67..68
PT /tag= h
PT /bound_molecy= "Bases 46-45 of the present sequence"
XX
XX misc_binding 72
PT /tag= i
PT /bound_molecy= "Base 41 of the present sequence"
XX
XX misc_binding 78..79
PT /tag= j
PT /bound_molecy= "Bases 35-34 of the present sequence"
```

```
XX US2004126882-A1.
XX
XX 01-UTL-2004.
XX
XX 24-SEP-2002; 2002US-00254568.
XX
XX 15-JUN-2000; 2000US-0212097P.
XX
XX 14-SEP-2000; 2000US-00661658.
XX
XX 20-SEP-2000; 2000US-00656870.
XX
XX 14-JUN-2001; 2001US-0083119.
XX
XX 24-SEP-2001; 2001US-0324715P.
XX
XX (ELL/) ELLINGTON A D.
PA (HESS/) HESSELBERTH J.
PA (THOM/) THOMPSON K.
PA (ROBE/) ROBERTSON M P.
PA (SOOT/) SOOTER L.
PA (DAVI/) DAVIDSON E.
PA (COXI/) COX J C.
PA (RIED/) RIEDEL T.
PA (WILS/) WILSON C.
PA (CLOA/) CLOAD S T.
PA (KEEF/) KEEFE A D.
XX
XX Ellington AD, Hesselberth J, Thompson K, Robertson MP, Sooter L,
PI Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD,
XX MPI; 2004-560517/54.
XX
XX Novel regulatable, catalytically active nucleic acid comprising effector
PT domain, and catalyst domain which comprises randomized catalytic residues
PT and is regulated by effector that interacts with effector domain.
XX
XX Example 1; SEQ ID NO 38; 78pp; English.
XX
XX The invention relates to a regulatable, catalytically active nucleic acid
CC (RCANA) segment comprising an effector domain and a nucleic acid catalyst
CC domain in which one or more critical catalytic residues of the nucleic
CC acid catalyst have been randomised, where the kinetic parameters of the
CC catalytic domain are regulated by an effector that interacts with the
CC effector domain. Also included are a nucleic acid comprising a gene, a
CC RCANA inserted within the gene (where the presence of an effector causes
CC the nucleic acid to catalyse a reaction). Isolating an RCANA (comprising
CC a catalytic and an effector domain involving randomising at least one
CC nucleotide in the catalytic domain of a catalytically active nucleic acid
CC to create a nucleic acid pool, removing from the nucleic acid pool those
CC nucleic acids that interact with the catalytic target of the catalytic
CC domain, adding an effector molecule to the nucleic acids and isolating
CC those nucleic acids that interact with the catalytic target of the
CC catalytic domain), detection of a target using a RCANA, modifying a
CC target using a RCANA (involving providing a RCANA capable of target-
CC specific modification and modifying the target under conditions that
CC cause a RCANA-specific activity), selecting an RCANA and detecting an
CC RCANA (involving isolating an RCANA, creating a construct in which the
CC nucleic acid is in position to regulate the expression of a reporter
CC gene, introducing the construct into a host cell and measuring the
CC catalytic activity of the nucleic acid upon exposure of the host cell to
CC the effector. The RCANA is useful for regulating production of a product
CC in a cell (by gene therapy) which involves inserting into a gene that
CC produces the product or regulates the production of the product in the
CC cell an RCANA which comprises a catalytic domain, that modifies a
CC transcript to alter its coding potential, and a regulatory domain which
CC recognises an effector that alters the function of the catalytic domain,
CC contacting the regulatory domain with an effector thereby regulating
CC production of the product. The concentration of the effector modulates
CC the activity of the catalytic domain of the RCANA. The production of the
CC product is fully inhibited or is increased compared to a normal control
CC level, or is partially inhibited according to the concentration of the
CC effector. The RCANA blocks or activates expression of the gene. The
CC effector is the product, where it accesses feedback inhibitor of the
CC gene. The product is produced in a metabolic pathway that is being
CC regulated, and the effector or the product is an intermediate in a
```

CC	metabolite pathway. The effector is endogenous or exogenous to the cell.
CC	The effector is an end product of a biosynthetic process. The effector or
CC	the product is chosen from protein, enzyme, protein pharmaceutical,
CC	metabolite, drug, dye, vitamin, food additive, chemical additive,
CC	pesticide, insecticide, feed compound, and a waste product. The drug is
CC	chosen from antibiotics, anticancer drugs, antifungals, cholesterol-
CC	lowering drugs, and immunosuppressants. The RCANA is useful for
CC	regulating a biological pathway in a cell, for screening a population of
CC	cells for a cell that produces a bioproduct, for modulating expression of
CC	a nucleic acid, in gene therapy applications, and for facilitating
CC	industrial biosynthesis and bioremediation. The present sequence is an
CC	RCANA based on the bacteriophage T4 thymidylate synthase gene self-
CC	splicing intron.
XX	
SQ	Sequence 82 BP; 24 A; 21 C; 16 G; 0 T; 21 U; 0 Other;
Query Match	10.8%; Score 14.2; DB 1; Length 82;
Best Local Similarity	62.9%; Pred. No. 29;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;	
Dn	
58 AGACATCCGCTGAATTATTAACAGATGTC 92	
56 AGACGATCGTGTAAATTATTAACAGGATTTCT 22	
Db	
RESULT 30	
ADQ96997/c	
ID ADQ96997 standard; RNA; 82 BP.	
XX	
AC ADQ96997;	
XX	
DT 23-SEP-2004 (first entry)	
XX	
XX Theophylline-dependent group I intron RCANA Th.P6.	
DE	
KW RCANA; catalytically active regulatable nucleic acid; ss; ribozyme;	
KW aptamer; effector domain; nucleic acid catalyst domain; gene therapy;	
KW industrial biosynthesis; bioremediation; bacteriophage T4;	
KW thymidylate synthase; self-splicing intron.	
XX	
OS Enterobacteria phage T4.	
OS Synthetic.	
XX	
FH Key	
FT misc_binding	Location/Qualifiers
/.*tag= a	4..8
/bound_moiety= "Bases 33-29 of the present sequence"	
/.*tag= b	14..24
/bound_moiety= "Bases 14-24 of the present sequence"	
/.*tag= c	29..33
/bound_moiety= "Bases 29-33 of the present sequence"	
/.*tag= d	34..35
/bound_moiety= "Bases 34-35 of the present sequence"	
/.*tag= e	41
/bound_moiety= "Base 41 of the present sequence"	
/.*tag= f	45..46
/bound_moiety= "Bases 45-46 of the present sequence"	
/.*tag= g	48..62
/bound_moiety= "Bases 48-62 of the present sequence"	
/.*tag= h	67..68
/bound_moiety= "Bases 67-68 of the present sequence"	
/.*tag= i	72
/bound_moiety= "Base 72 of the present sequence"	
/.*tag= j	78..79
/bound_moiety= "Bases 78-79 of the present sequence"	
/.*tag= k	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= l	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= m	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= n	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= o	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= p	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= q	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= r	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= s	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= t	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= u	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= v	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= w	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= x	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= y	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= z	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AA	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AB	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AC	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AD	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AE	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AF	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AG	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AH	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AI	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AJ	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AK	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AL	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AM	82
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/.*tag= AN	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AO	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AP	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AQ	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AR	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AS	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AT	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AU	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AV	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AW	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AX	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AY	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= AZ	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= BA	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= BB	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= BC	82
/bound_moiety= "Base 82 of the present sequence"	
/.*tag= BD	82
/bound_moiety= "Base 82 of the present sequence"	

US2004126882-A1.

01-JUL-2004.

24-SEP-2002; 2002US-00254568.

15-JUN-2000; 2000US-0212097P.

14-SEP-2000; 2000US-00661658.

20-SEP-2000; 2000US-00666870.

14-JUN-2001; 2001US-00883119.

24-SEP-2001; 2001US-0324715P.

(ELLI/) ELLINGTON A D.

(HES/) HESSELBERTH J.

(THOM/) THOMPSON K.

(ROBE/) ROBERTSON M P.

(SOOT/) SOOTER L.

(DAVI/) DAVIDSON E.

(COXJ/) COX J C.

(RIED/) RIEDEL T.

(WILS/) WILSON C.

(CLOA/) CLOUD S T.

(KEEF/) KEEFE A D.

Ellington AD, Hesseleberth J, Thompson K, Robertson MP, Sooter L; Davidson E, Cox JC, Riedel T, Wilson C, Cloud ST, Keefe AD; WPI; 2004-560517/54.

Example 5; SEQ ID NO 65; 78pp; English.

The invention relates to a regulatable, catalytically active nucleic acid (RCANA) segment comprising an effector domain and a nucleic acid catalyst domain in which one or more critical catalytic residues of the nucleic acid catalyst have been randomized, where the kinetic parameters of the catalytic domain are regulated by an effector that interacts with the effector domain. Also included are a nucleic acid comprising a gene, a RCANA inserted within the gene (where the presence of an effector causes the nucleic acid to catalyze a reaction), isolating an RCANA (comprising a catalytic and an effector domain involving randomizing at least one nucleotide in the catalytic domain of a catalytically active nucleic acid, to create a nucleic acid pool, removing from the nucleic acid pool those nucleic acids that interact with the catalytic target of the catalytic domain, adding an effector molecule to the nucleic acids and isolating those nucleic acids that interact with the catalytic target of the catalytic domain), detection of a target using a RCANA, modifying a target using a RCANA (involving providing a RCANA capable of target-specific modification and modifying the target under conditions that cause a RCANA-specific activity), selecting an RCANA and detecting an RCANA (involving isolating an RCANA, creating a construct in which the nucleic acid is in position to regulate the expression of a reporter gene, introducing the construct into a host cell and measuring the catalytic activity of the nucleic acid upon exposure of the host cell to the effector. The RCANA is useful for regulating production of a product in a cell (by gene therapy) which involves inserting into a gene that produces the product or regulates the production of the product in the cell an RCANA which comprises a catalytic domain, that modifies a transcript to alter its coding potential, and a regulatory domain which recognizes an effector that alters the function of the catalytic domain, contacting the regulatory domain with an effector thereby regulating production of the product. The concentration of the effector modulates the activity of the catalytic domain of the RCANA. The production of the product is fully inhibited or is increased compared to a normal control level, or is partially inhibited according to the concentration of the effector. The RCANA blocks or activates expression of the gene. The effector is the product, where it accesses feedback inhibitor of the gene. The product is produced in a metabolic pathway that is being regulated, and the effector or the product is an intermediate in a metabolic pathway. The effector is endogenous or exogenous to the cell.

Query Match 10.5%; Score 13.8; DB 1; Length 18;
 Best Local Similarity 88.2%; Pred. No. 64;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CAATCCCGTCTAAATT 77
 |||||
 DB 1 CAATCCCTCGCTAAATT 17

RESULT 33
 ADB54669/c
 ID ADB54669 standard; DNA; 18 BP.

AC ADB54669;

DT 04-DEC-2003 (first entry)

DE Hybridisation oligonucleotide 207 used to analyse genomic DNA region.

XX colon cell proliferative disorder; non methylated CPG dinucleotide;

KM cytostatic; cancer; adenoma; carcinoma; cytosine methylation state; ss;
 probe.

XX unidentified.

PN W02003072821-A2.

XX 04-SEP-2003.

PF 27-FEB-2003; 2003WO-EP02035.

XX 27-FEB-2002; 2002EP-0004551.

XX (EPIC-) EPIGENOMICS AG.

PI Adorjan P, Burger M, Maier S, Nimmrich I, Becker E, Lesche R;
 PI Rujan T, Schmitt A;

XX WPI; 2003-731620/69.

DR
 PT Detecting and differentiating between colon cell proliferative disorders
 PT associated with a gene or its regulatory regions comprises contacting a
 PT target nucleic acid in a biological sample obtained from the subject with
 PT a reagent.

XX
 PS Claim 36; Page 38; 74pp; English.

XX The invention relates to a novel method for detecting and differentiating
 CC between colon cell proliferative disorders associated with at least one
 CC gene or its regulatory regions. The method comprises contacting a target
 CC nucleic acid in a biological sample obtained from the subject with at
 CC least one reagent or a series of reagents, where the reagent or series of
 CC reagents, distinguishes between methylated and non methylated CPG
 CC dinucleotides within the target nucleic acid. The molecules of the
 CC invention demonstrate cytosine activity whilst the method may useful
 CC for detecting and differentiating between colon cell proliferative
 CC disorders, including cancers such as colon adenoma and colon carcinoma.
 CC The PNA (peptide nucleic acid)-oligomers are useful as probes for
 CC determining cytosine methylation state or single nucleotide
 CC polymorphisms. The current sequence is that of the hybridisation
 CC oligonucleotide of the invention which was used to analyse the genomic
 CC DNA region.

XX
 SQ Sequence 18 BP; 5 A; 1 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 10.5%; Score 13.8; DB 1; Length 18;

Best Local Similarity 88.2%; Pred. No. 64;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CAATCCCGTCTAAATT 77
 |||||
 DB 18 CAATCCCTCGCTAAATT 2

RESULT 34
 AAL43048/c
 ID AAL43048 standard; DNA; 94 BP.

AC AAL43048;

DT 25-SEP-2002 (first entry)

DE Regulatable, catalytically active nucleic acid construction oligo #7.

XX Regulatable catalytically active nucleic acid; RCANA; ribozyme;

KM gene therapy; ds.

XX Synthetic.

PN W0200196559-A2.

XX 20-DEC-2001.

PF 14-JUN-2001; 2001WO-US019302.

XX 15-JUN-2000; 2000US-0212097P.

XX (TEXA) UNITV TEXAS SYSTEM.

PI Ellington AD, Hesselberth J, Marshall K, Robertson M, Sooter L;
 PI Davidson E, Cox JC, Reidel T;

XX WPI; 2002-122216/16.

DR
 PT New regulatable, catalytically active nucleic acids (RCANA), useful in
 PT gene therapy (particularly for regulating gene expression), or in assays
 PT for detecting the presence of ligands or activation of an effector of
 PT RCANA.

XX Example 5; Page 68; 126pp; English.

XX The present invention relates to regulatable, catalytically active
 CC nucleic acids (RCANA) which are regulated by polypeptides. These are
 CC useful for regulating gene expression, in assays for detecting the
 CC presence of ligands, for activation of an effector of RCANA, and in gene
 CC therapy. The present sequence is an oligonucleotide used in the
 CC construction of an RCANA

XX
 SQ Sequence 94 BP; 27 A; 23 C; 17 G; 27 T; 0 U; 0 Other;

Query Match 10.4%; Score 13.6; DB 1; Length 94;
 Best Local Similarity 80.0%; Pred. No. 30;
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 AGTATAGTGTGACTTACT 25
 |||||
 DB 25 AGTATAGTGTGACTTACT 6

RESULT 35

ADA39564/c
 ID ADA39564 standard; DNA; 94 BP.

AC ADA39564;

DT 20-NOV-2003 (first entry)

DE RCANA construction related oligonucleotide SEQ ID NO:20.

XX regulatable catalytically active nucleic acid; RCANA; catalytic domain;

KM regulation; screening; gene therapy; biological pathway regulation;

XX regulatory element; metabolic pathway; ribozyme; ss.
 OS Synthetic.

PN WO2003027310-A2.
 XX
 PD 03-APR-2003.
 XX
 PD 24-SEP-2002; 2002WO-US030458.
 PF
 XX 24-SEP-2001; 2001US-0324715P.
 PR
 XX (ARCH-) ARCHEMIX CORP.
 PA Wilson C, Cload ST, Keefe AD;
 PI WPI; 2003-354657/33.
 DR
 XX
 XX
 PT Regulating production of a product in a cell, comprises inserting a
 PT regulatable catalytically active nucleic acid into a gene that produces
 PT the product or regulates the production of the product in the cell.
 XX
 PS Example 5; Page 70; 128pp; English.
 CC The present invention describes a method for regulating production of a
 CC product in a cell. The method comprises inserting a regulatable
 CC catalytically active nucleic acid (RCANA) into a gene that produces the
 CC product or regulates the production of the product in the cell, where the
 CC RCANA comprises a catalytic domain which modifies a transcript to alter
 CC its coding potential and a regulatory domain that recognizes an effector
 CC that alters the function of the catalytic domain, and contacting the
 CC regulatory domain with an effector to regulate production of the product.
 CC Also described: (1) regulating a biological pathway in cell; and (2)
 CC screening a population of cells for a cell that produces a bioproduct.
 CC The methods are useful for regulating a biological pathway in cell, or
 CC regulating production of a product in a cell. The RCANAs are useful as
 CC regulatory elements to control the expression of genes in a metabolic
 CC pathway, or as regulated selectable markers to increase a selective
 CC pressure favouring or disfavouring production of a targeted bioproduct.
 CC The RCANAs are also useful for in vitro or in vivo sensing or detection,
 CC and in gene therapy. The present sequence represents an oligonucleotide
 CC used in the construction of an RCANA, which is used in an example from
 CC the present invention.
 CC
 SQ Sequence 94 BP; 27 A; 23 C; 17 G; 27 T; 0 U; 0 Other;
 QY
 Query Match 10.4%; Score 13.6; DB 1; Length 94;
 Best Local Similarity 80.0%; Pred. No. 30;
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 DB 25 AGTAAAGTGAAGTACTTACT 25
 6 AGTAAAGTGAAGTACTTACT 25
 25 AGTAAAGTGAAGTACTTACT 6
 RESULT 36
 ADQ6955/c
 ID ADQ6955 strand; DNA; 94 BP.
 XX
 AC ADQ6955;
 XX
 DT 23-SEP-2004 (first entry)
 XX
 DE RCANA GPITH1P6 mutagenic oligonucleotide B11.
 XX
 KM RCANA; catalytically active regulatable nucleic acid; 88; ribozyme;
 KM aptamer; effector domain; nucleic acid catalyst domain; gene therapy;
 KM industrial biosynthesis; bioremediation; bacteriophage T4;
 KM thymidylate synthase; self-splicing intron.
 XX
 OS Enterobacteria phage T4.
 XX Synthetic.
 XX
 PN US2004126882-A1.
 XX
 PD 01-JUL-2004.
 XX

PF 24-SEP-2002; 2002US-00254568.
 XX
 XX 15-JUN-2000; 2000US-0212097P.
 PR 14-SEP-2000; 2000US-00661658.
 PR 20-SEP-2000; 2000US-00666870.
 PR 14-JUN-2001; 2001US-00883119.
 PR 24-SEP-2001; 2001US-0324715P.
 XX
 XX (BELI/) ELLINGTON A D.
 PA (HESS/) HESSELBERG J.
 PA (THOM/) THOMPSON K.
 PA (ROBE/) ROBERTSON M P.
 PA (SOOT/) SOOTER L.
 PA (DAVI/) DAVIDSON E.
 PA (COX/) COX J C.
 PA (RIED/) RIEDEL T.
 PA (WILS/) WILSON C.
 PA (CLOA/) CLOAD S T.
 PA (KEEF/) KEEFE A D.
 XX
 XX Ellington AD, Hesselbergh J, Thompson K, Robertson MP, Sooter L;
 PI Davidson E, Cox JC, Riedel T, Wilson C, Cload ST, Keefe AD;
 XX WPI; 2004-560517/54.
 DR
 XX
 XX
 PT Novel regulatable, catalytically active nucleic acid comprising effector
 PT domain, and catalyst domain which comprises randomized catalytic residues
 PT and is regulated by effector that interacts with effector domain.
 XX
 PS Example 5; SEQ ID NO 20; 78pp; English.
 CC The invention relates to a regulatable, catalytically active nucleic acid
 CC (RCANA) segment comprising an effector domain and a nucleic acid catalyst
 CC domain in which one or more critical catalytic residues of the nucleic
 CC acid catalyst have been randomised, where the kinetic parameters of the
 CC catalytic domain are regulated by an effector that interacts with the
 CC effector domain. Also included are a nucleic acid comprising a gene, a
 CC RCANA inserted within the gene (where the presence of an effector causes
 CC the nucleic acid to catalyse a reaction), isolating an RCANA (comprising
 CC a catalytic and an effector domain involving randomising at least one
 CC nucleotide in the catalytic domain of a catalytically active nucleic acid
 CC to create a nucleic acid pool, removing from the nucleic acid pool those
 CC nucleic acids that interact with the catalytic target of the catalytic
 CC domain, adding an effector molecule to the nucleic acids and isolating
 CC those nucleic acids that interact with the catalytic target of the
 CC catalytic domain), detection of a target using a RCANA, modifying a
 CC target using a RCANA (involving providing a RCANA capable of target-
 CC specific modification and modifying the target under conditions that
 CC cause a RCANA-specific activity), selecting an RCANA and detecting an
 CC RCANA (involving isolating an RCANA, creating a construct in which the
 CC nucleic acid is in position to regulate the expression of a reporter
 CC gene, introducing the construct into a host cell and measuring the
 CC catalytic activity of the nucleic acid upon exposure of the host cell to
 CC the effector. The RCANA is useful for regulating production of a product
 CC in a cell (by gene therapy) which involves inserting into a gene that
 CC produces the product or regulates the production of the product in the
 CC cell an RCANA which comprises a catalytic domain, that modifies a
 CC transcript to alter its coding potential, and a regulatory domain which
 CC recognises an effector that alters the function of the catalytic domain,
 CC contacting the regulatory domain with an effector thereby regulating
 CC production of the product. The concentration of the effector modulates
 CC the activity of the catalytic domain of the RCANA. The production of the
 CC product is fully inhibited or is increased compared to a normal control
 CC level, or is partially inhibited according to the concentration of the
 CC effector. The RCANA blocks or activates expression of the gene. The
 CC effector is the product, where it accesses feedback inhibitor of the
 CC gene. The product is produced in a metabolic pathway that is being
 CC regulated, and the effector or the product is an intermediate in a
 CC metabolic pathway. The effector is endogenous or exogenous to the cell.
 CC The effector is an end product of a biosynthetic process. The effector or
 CC the product is chosen from protein, enzyme, protein pharmaceutical,
 CC metabolite, drug, dye, vitamin, food additive, chemical additive,
 CC pesticide, insecticide, feed compound, and a waste product. The drug is

Query	Match	Best local Similarity	Score	DB	Length	Matches	Conservative	Mismatches	Indels	Gaps
QY	6 AGTATTAAGTCACTTAACT	25	10.4%	Score 13.6;	DB 1;	Length 94;				
DB	25 AGTATTAAGTCACTTAACT	6	80.0%	Pred. No. 30;			0;	4;	0;	0;
XX	Sequence 94 BP;	27 A;	23 C;	17 G;	27 T;	0 U;	0 Other;			
XX	Query Match	10.4%	Score 13.6;	DB 1;	Length 94;					
XX	Best local Similarity	80.0%	Pred. No. 30;							
XX	Matches 16;	Conservative 0;	Mismatches 4;	Indels 0;	Gaps 0;					
XX	ABN83053;									
XX	ABN83053 standard; RNA; 82 BP.									
XX	16-AUG-2002 (first entry)									
XX	Group 1 p6 aptazyme pool.									
XX	Aptazyme; regulatable; aptamer; luciferase; cyclic AMP; ss;									
XX	group 1 ribozyme; anti-theophylline; aptazyme pool.									
XX	Unidentified.									
XX	Key	Location/Qualifiers								
XX	misc_binding	4..9								
XX	stem_loop	14..24								
XX	misc_binding	28..33								
XX	misc_binding	34..35								
XX	misc_feature	41								
XX	misc_binding	45..46								
XX	stem_loop	48..62								
XX	misc_binding	67..68								
XX	misc_feature	72								
XX	misc_binding	78..79								
XX	misc_feature	80								
XX	misc_binding	81								
XX	misc_feature	82								
XX	misc_binding	83								
XX	misc_feature	84								
XX	misc_binding	85								
XX	misc_feature	86								
XX	misc_binding	87								
XX	misc_feature	88								
XX	misc_binding	89								
XX	misc_feature	90								
XX	misc_binding	91								
XX	misc_feature	92								
XX	misc_binding	93								
XX	misc_feature	94								
XX	misc_binding	95								
XX	misc_feature	96								
XX	misc_binding	97								
XX	misc_feature	98								
XX	misc_binding	99								
XX	misc_feature	100								
XX	misc_binding	101								
XX	misc_feature	102								
XX	misc_binding	103								
XX	misc_feature	104								
XX	misc_binding	105								
XX	misc_feature	106								
XX	misc_binding	107								
XX	misc_feature	108								
XX	misc_binding	109								
XX	misc_feature	110								
XX	misc_binding	111								
XX	misc_feature	112								
XX	misc_binding	113								
XX	misc_feature	114								
XX	misc_binding	115								
XX	misc_feature	116								
XX	misc_binding	117								
XX	misc_feature	118								
XX	misc_binding	119								
XX	misc_feature	120								
XX										

[illegible]

XX Novel polypeptides that are the regulators of BRCA-1, useful for treating
PT cancer and diagnosing the presence of neoplastic cells in biological
PT sample.
XX Disclosure; Fig 8; 97pp; English.
XX Sequences AAS55729-AAS5668 represent DNA encoding BRCA-1 regulators,
CC ribozyme target recognition RNA sequences, DNA fragments encoding the RNA
CC and primers used in the methods of the invention. Hybridisation of
CC ribozymes to their targets results in cleavage of the RNA target. The
CC ribozymes can be used to cleave regulators of the tumour suppressor BRCA-
CC 1, resulting in upregulation or downregulation of BRCA-1 in a cell. The
CC mRNA targets include those encoding the BRCA-1 regulator BRL1, inhibitor
CC dominant negative 4 (ID4), breast basic conserved protein 1 (BBC1),
CC CHIR2, A6, BR2 and BR3. Regulation of BRCA-1 is useful for treating and
CC diagnosing cancer and other proliferative disorders. The severity of an
CC incidence of cancer can be lessened by regulating tumour proliferation
CC through modulation of BRCA-1 expression. The sequences of the invention
CC are useful in the development of anti-cancer drugs
XX
SQ Sequence 16 BP; 3 A; 4 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 9.8%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 82;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 84 GCATGCTTGTGATGCC 99
DB 1 GCATGCTTGTGAAGCC 16
|||||
|
RESULT 39
ID ABT35681/c
ABT35681 standard; DNA; 17 BP.
XX
AC ABT35681;
XX
DT 12-TUN-2003 (first entry)
XX
DE Tumour suppression related human fukutin oligo SEQ ID No 1318.
XX
XX Cytostatic; vinorelbine; neuroprotective; neurotropic; neuroleptic; gene chip;
KW anti-sense; gene; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX
XX Homo sapiens.
OS
XX
XX MO2003025175-A2.
PN
XX
XX 27-MAR-2003.
PD
XX
XX 17-SEP-2002; 2002WO-IB004208.
PF
XX
XX 17-SEP-2001; 2001FR-00011978.
PR
XX
XX (MOLE-) MOLECULAR ENGINES LAB.
PA
XX
XX Telerman A, Amson R, Tuijnder M;
PI
XX
XX WPI, 2003-313353/30.
DR
XX
XX New isolated nucleic acid, useful for treating viral diseases associated
PT with tumours and cell degeneration, also related polypeptides, antibodies
PT and transfected cells.
XX
XX Disclosure; Page 187; 720pp; French.
XX
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,
CC given in the specification, a sequence containing at least 15 consecutive
CC nucleotides from the 17 mer sequence, a sequence with, after optimal
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that

CC hybridizes to them under highly stringent conditions, or the complement
CC of any of them, or the corresponding RNA. The novel isolated nucleic
CC acids of the invention are useful as probes and primers for detecting,
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
CC component of a gene chip, in vitro as (anti)sense reagents, and for
CC production of recombinant polypeptides. Any of the nucleic acids,
CC polypeptides, vectors containing the nucleic acids, cells containing the
CC vector or antibodies directed against the polypeptides are useful for
CC preparation of pharmaceuticals for prevention and/or treatment of viral
CC diseases that are characterised by development of tumours or cell
CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression and/or prognosis of these
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention
XX
SQ Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 9.8%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 80;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 94 GATGCCCTTGGCAGAT 109
DB 17 GATGGCTTGGCAGAT 2
|||||
|
RESULT 40
ID ACC80518/c
ACC80518 standard; DNA; 17 BP.
XX
AC ACC80518;
XX
DT 25-JUL-2003 (first entry)
XX
DE m2CRF2 EMSA probe for protein binding to mouse UCPI enhancer region.
XX
XX Mouse; UCPI; ds; anorectic; expression modulator; thermogenesis;
KW brown adipose tissue; obesity; weight disorder; enhancer; probe;
KW mitochondrial uncoupling factor; nuclear factor erythroid 2.
XX
XX Synthetic.
OS
XX
XX MO2003026576-A2.
PN
XX
XX 03-APR-2003.
PD
XX
XX 24-SEP-2002; 2002WO-US030266.
PF
XX
XX 24-SEP-2001; 2001US-0324400P.
PR
XX
XX (LOU) UNIV LOUISIANA STATE & AGRIC & MECH COLL.
PA
XX
XX Kozak LP, Rim JS;
PI
XX
XX WPI, 2003-354624/33.
DR
XX
XX Ameliorating or preventing in mammals, symptoms of a disease treatable by
PT increasing uncoupling protein 1 (UCPI) expression, by administering a
PT compound that causes an increase in concentration of NFE212 protein, to
PT the mammal.
XX
XX Example 2; Page 17; 57pp; English.
XX
XX The invention relates to the treatment of e.g a weight disorder such as
CC obesity, by increasing thermogenesis in brown adipose tissue (BAT). The
CC method involves increasing the expression of the BAT gene, mitochondrial
CC uncoupling protein 1 (UCPI), especially by contacting the regulatory
CC region of the gene with the nuclear factor erythroid 2 (NF-E2)
CC transcription factor. This sequence represents an electrophoretic

CC mobility shift assay (EMSA) probe used in a competitive binding assay to
 CC identify which sequences in the mouse Ucp1 gene enhancer region
 CC (ACG0501) are used to bind CREB protein. The treatment involved
 CC modulation of Nfe2l2 gene expression, an increase in Ucp1 expression
 CC leading to an enhancement of growth and differentiation of brown adipose
 CC tissue. The treatment is useful for ameliorating or preventing the
 CC symptoms of a disease treatable by increasing Ucp1 expression, in
 CC mammals, e.g. weight disorder which can be ameliorated or prevented with
 CC an increase in brown adipose tissue thermogenesis such as obesity
 XX

Sequence 17 BP; 5 A; 4 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 80;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 AAGTGACTTACTT 26
 DB 16 AAGTGACTTACTT 1

RESULT 41
 ADB41555/C
 ID ADB41555 standard; DNA; 17 BP.
 XX
 AC ADB41555;
 XX
 DT 18-DEC-2003 (revised)
 DT 04-DEC-2003 (first entry)
 XX
 DE Tumour suppression/reversion associated nucleotide #1878.

XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;
 KM primer; probe; tumour suppression; tumour reversion; apoptosis;
 KM virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;
 KM diagnosis.

XX Homo sapiens.
 OS
 XX
 PN MO2003040369-A2.

XX 15-MAY-2003.
 PD
 XX
 PF 17-SEP-2002; 2002WO-IB004219.
 XX
 PR 17-SEP-2001; 2001PR-00011981.

XX (MOE-) MOLECULAR ENGINES LAB.

PI Telerman A, Amson R, Tuljinder M;

XX
 DR WPI; 2003-441574/41.

XX New nucleic acid encoding human prostate membrane-specific antigen,
 PT useful e.g. for treatment of tumors and viral infection, also related
 PT polypeptide and antibodies.

XX Disclosure; Page 251; 771pp; French.

XX The invention relates to the isolation of 6327 nucleotide sequences,
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a
 CC sequence having at least 80% identity, after optimal alignment, with the
 CC nucleotides, a sequence that hybridizes under stringent conditions with
 CC the nucleotides, or the complement, or corresponding RNA, of the
 CC nucleotides. The nucleotides are used as probes or primers for detecting,
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro
 CC sense and antisense sequences, of nucleotides involved in tumour
 CC suppression or reversion, apoptosis and or viral resistance, to produce
 CC recombinant polypeptides, and to prepare transgenic animals, as
 CC experimental models. The nucleotides (also vectors containing them and
 CC cells containing the vectors), the encoded polypeptides and antibodies
 CC (Ab) against the polypeptide are useful for prevention and/or treatment
 CC of viral infections or diseases characterized by development of tumours

CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).
 CC Analysis of the expression of the nucleotides can be used for diagnosis
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can
 CC also be used to screen for their specific interactive molecules,
 CC potentially useful for treating diseases associated with abnormal
 CC expression of the nucleotides.

Sequence 17 BP; 5 A; 5 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 80;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 81 CCAGCATCGCTTGGAT 96
 DB 17 CCAGCATCGCTTGGAT 2

RESULT 42
 ADD42040
 ID ADD42040 standard; DNA; 17 BP.
 XX

AC ADD42040;

XX 15-JAN-2004 (first entry)

DE Rice acetolactate synthase related oligonucleotide 3-1-1 SEQ ID NO:21.

XX ss; rice; acetolactate synthase; ALS; pyrimidinyl carboxy herbicide;
 KM herbicide-resistance; herbicide.

XX Synthetic.

PN MO2003083118-A1.

XX 09-OCT-2003.

PD 21-FEB-2003; 2003WO-JP001917.

PF 29-MAR-2002; 2002JP-00095721.

PR (TSUB) KOMITAI CHEM IND CO LTD.
 PA (NAG-) NAT INST AGROBIOLOGICAL SCI.

XX Kaku K, Shimizu T, Kawai K, Nagayama K, Fukuda A, Tanaka Y;

XX WPI; 2003-902935/82.

XX Genes of rice origin encoding pyrimidinyl carboxy herbicide resistant
 PT acetolactate synthase for production of herbicide resistant strains or
 PT rice and other plants.

XX Example 4; SEQ ID NO 21; 96pp; Japanese.

XX The invention relates to novel mutant forms of the rice acetolactate
 CC synthase (ALS) gene encoding ALS resistant to pyrimidinyl carboxy
 CC herbicides. Plants which may be transformed with the mutant gene include
 CC rice, and also maize, barley, wheat, soy, cotton and tobacco. The mutant
 CC gene may be useful in the production of herbicide-resistant plants which
 CC can be cultivated in the presence of the herbicide. The present sequence
 CC is used in the exemplification of the invention.

Sequence 17 BP; 2 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 80;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 84 GCATGCTTGGATGCC 99
 DB 1 GCATGCTTGGATGCC 16

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RESULT 43
XX ADI49919
XX ADI49919 standard; DNA; 17 BP.
XX AC ADI49919,
XX DT 15-APR-2004 (first entry)
XX DE Human tumour suppression/reversion-related DNA sequence SegID2422.
XX KM tumour suppression; tumour reversion; apoptosis; virus resistance;
XX KM cytostatic; virucide; neuroprotective; neurotropic; neuroleptic; probe;
XX KM primer; PCR; gene chip; antisense; viral disease; tumour;
XX KM cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
XX OS Homo sapiens.
XX PN WO2003025177-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004523.
XX PR 17-SEP-2001; 2001FR-00011980.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnder M;
XX DR WPI; 2003-313354/30.
XX PT New isolated nucleic acid, useful for treating viral diseases associated
XX PT with tumours and cell degeneration, also related polypeptides, antibodies
XX PT and transfected cells.
XX PS Disclosure; SEQ ID NO 2422; 30pp; French.
XX CC This invention relates to novel isolated nucleic acid sequences involved
XX CC in the phenomena of tumour suppression, tumour reversion, apoptosis
XX CC and/or resistance to viruses. The invention may be useful for the
XX CC development of compounds with a cytostatic, virucide, neuroprotective,
XX CC neurotropic or neuroleptic activity. The DNA sequences may be useful as
XX CC probes and primers for detecting, identifying, quantifying and/or
XX CC amplifying nucleic acid, for example as one component of a gene chip, in
XX CC vitro as antisense reagents and for production of recombinant
XX CC polypeptides. The invention may therefore be useful for preparation of
XX CC pharmaceuticals for prevention and/or treatment of viral diseases that
XX CC are characterised by development of tumours or cell degeneration.
XX CC Specifically cancer but also Alzheimer's disease and schizophrenia. The
XX CC present sequence is that of a nucleic acid sequence of the invention.
XX CC Note: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/publishhedpct_sequences
XX SQ Sequence 17 BP; 2 A; 4 C; 3 G; 8 T; 0 U; 0 Other;
XX
XX Query Match 9.8%; Score 12.8; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 80;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 86 ATGCTCTGATGCCCT 101
XX DB 2 ATCTCTTGATGTCCT 17
XX
XX RESULT 44
XX ACCS3993/C
XX AC ACCS3993 standard; DNA; 17 BP.
XX AC ACCS3993;
XX DT 27-JUN-2003 (first entry)
XX

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DE Human tumour suppressor sequence #2760.
XX KM ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
XX KM tumour regression; apoptosis; virus resistance; diagnosis;
XX KM cellular degeneration.
XX OS Homo sapiens.
XX PN FR2826373-A1.
XX PD 27-DEC-2002.
XX PF 20-JUN-2001; 2001FR-00008139.
XX PR 20-JUN-2001; 2001FR-00008139.
XX PA (MOLE-) MOLECULAR ENGINES LAB SA.
XX PI Tuijnder M, Telerman A, Amson R;
XX DR WPI; 2003-250498/25.
XX PT New nucleic acid sequences associated with tumor suppression, regression,
XX PT apoptosis or virus resistance are useful to diagnose and treat viral
XX PT disease, development of tumor cells and cell degeneration.
XX PS Claim 1; Page 677; 798pp; French.
XX CC This sequence represents an isolated nucleic acid sequence associated
XX CC with tumour suppression or regression, apoptosis or virus resistance. The
XX CC invention relates to these sequences or sequences having at least 80%
XX CC identity to them, and polypeptides encoded by the sequences or
XX CC polypeptides having 80% identity to the polypeptide sequences. The
XX CC invention is used to diagnose or treat viral disease or disease
XX CC characterized by development of tumour cells or cellular degeneration
XX SQ Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 9.8%; Score 12.8; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 80;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 94 GATGCCCTTGCCAGAT 109
XX DB 17 GATGCTTGCCAGAT 2
XX
XX RESULT 45
XX ADI84100
XX ID ADI84100 standard; RNA; 17 BP.
XX AC ADI84100;
XX DT 03-JUN-2004 (first entry)
XX DE HCV DNAzyme substrate sequence #1346.
XX KM ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;
XX KM HCV infection; type I interferon; DNAzyme.
XX OS Hepatitis C virus.
XX PN US2003125270-A1.
XX PD 03-JUL-2003.
XX PF 18-DEC-2000; 2000US-00740332.
XX PR 18-DEC-2000; 2000US-00740332.
XX PA (BLAT/) BLATT L.
XX PA (MCSW/) MCSMIGEN J.
XX PA (ROBE/) ROBERTS E.

```

PA (PAVC/) PAVCO P A.
PA (MACE/) MACEJACK D.
XX
PI Blact L, Meswigen J, Roberts B, Pavco PA, Macejack D;
XX
DR WPI; 2004-031273/03.
XX
PT Enzymatic nucleic acid molecules which specifically cleave RNA derived
PT from hepatitis C virus (HCV), useful for the treatment of HCV infections,
PT especially in combination with type I interferon therapy.
XX
PS Claim 1; SEQ ID NO 1346; 198bp; English.
XX
CC The invention relates to an enzymatic nucleic acid molecule which
CC specifically cleaves RNA derived from hepatitis C virus (HCV), in which
CC the binding arms of the enzymatic nucleic acid molecule comprises
CC sequences complementary to any of the defined substrate sequences given
CC in the specification. The nucleic acid molecule may be administered for
CC the treatment of HCV infections, especially in combination with type I
CC interferons. The present sequence represents a HCV DNzyme substrate
CC sequence.
SQ Sequence 17 BP; 4 A; 6 C; 4 G; 0 T; 3 U; 0 Other;
Query Match 9.8%; Score 12.8; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 80;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
QY 40 ACGGGGACCTCTCTA 55
DB 1 ACAGGAGCCUCUCA 16
RESULT 46
ID AAT54644/C
ID AAT5644 standard; RNA; 15 BP.
XX
AC AAT54644;
XX
DT 25-MAR-2003 (revised)
DT 22-APR-1997 (first entry)
XX
DE Mouse IL-5 hammerhead ribozyme target sequence (nt. position 975).
XX
XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
KM gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
KM intercellular adhesion molecule; rel A; tumour necrosis factor;
KM TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
KM translocation; chronic myelogenous leukaemia; CML; cancer;
KM Philadelphia chromosome; inflammation; autoimmune disease;
KM atherosclerosis; myocardial infarction; stroke; restenosis;
KM transplant rejection; rheumatoid arthritis; psoriasis;
KM myocardial ischaemia; Kawasaki disease; septic shock; HIV;
KM human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
KM ss.
XX
OS Mus musculus.
XX
PN W09523225-A2.
XX
PD 31-AUG-1995.
XX
PF 23-FEB-1995; 95WO-IB000156.
XX
XX 23-FEB-1994; 94US-00201109.
PR 29-MAR-1994; 94US-00218934.
PR 04-APR-1994; 94US-00222795.
PR 07-APR-1994; 94US-00224483.
PR 15-APR-1994; 94US-00227958.
PR 15-APR-1994; 94US-00228041.
PR 18-MAY-1994; 94US-00245736.
PR 06-JUL-1994; 94US-00271280.
PR 15-AUG-1994; 94US-00291932.

PR 16-AUG-1994; 94US-00291433.
PR 17-AUG-1994; 94US-00292620.
PR 19-AUG-1994; 94US-00293520.
PR 02-SEP-1994; 94US-00300000.
PR 08-SEP-1994; 94US-00303039.
PR 23-SEP-1994; 94US-00311486.
PR 23-SEP-1994; 94US-00311749.
PR 28-SEP-1994; 94US-00314397.
PR 03-OCT-1994; 94US-00316771.
PR 07-OCT-1994; 94US-00319492.
PR 11-OCT-1994; 94US-00321993.
PR 04-NOV-1994; 94US-00334847.
PR 10-NOV-1994; 94US-00337608.
PR 28-NOV-1994; 94US-00345516.
PR 16-DEC-1994; 94US-00357577.
PR 23-DEC-1994; 94US-00363233.
PR 30-JUN-1995; 95US-00380734.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Stinchcomb DT, Chowrira B, Dizenzo A, Draper KG, Dudycz LM;
PI Grimm S, Karpelsky A, Kisich K, Matulic-Adamic J, Meswigen JA;
PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
PI Tracz D, Usman N, Wincott FS, Woolf T;
XX
DR WPI; 1995-351090/45.
XX
XX Ribozymes having modified bases and methods for producing them - for use
PT in inhibiting disease related genes.
PT
PS Claim 2; Page 221; 407bp; English.
XX
XX The present sequence represents a preferred target sequence for an
CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves interleukin-5 (IL-
CC 5) mRNA at the nucleotide base position indicated in the DB line. Regions
CC of the mRNA that do not form secondary folding structures and that
CC contain potential hammerhead and hairpin ribozyme cleavage sites were
CC identified by computer analysis. Ribozymes directed against these mRNA
CC sequences were designed and synthesised with modifications that improve
CC their nuclease resistance. The ribozymes cleave the IL-5 target sequences
CC and thereby inhibit IL-5 expression, making them useful for treating
CC chronic asthma, e.g. by inhibiting the synthesis of IL-5 in lymphocytes
CC and preventing the recruitment and activation of eosinophils. The
CC ribozymes can also be used to treat eosinophilia (related to parasitic
CC infection or with pulmonary infiltration) and L-tryptophan-associated
CC eosinophilia-myalgia syndrome. (Updated on 25-MAR-2003 to correct PI
CC field.)
XX
SQ Sequence 15 BP; 4 A; 4 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 9.5%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 91;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 31 TCTATCTAAGCGG 44
DB 15 TCTATCTAAGCGG 2
RESULT 47
ID ABH36274/C
ID ABH36274 standard; DNA; 13 BP.
XX
AC ABH36274;
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 236251 for detecting SNP TSC0057662.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX

OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 236251; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX
XX Sequence 13 BP; 2 A; 1 C; 6 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 9.2%; Score 12; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 1e+02; Mismatches 0; Gaps 0;
XX Matches 12; Conservative 0; Indels 0; Indels 0; Gaps 0;

QY 118 AACGACTATCCC 129
DB 12 AACGACTATCCC 1

RESULT 48
ABH36275
ID ABH36275 standard; DNA; 13 BP.
XX
XX ABH36275;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 236252 for detecting SNP TSC0057662.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;

XX
XX WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 236252; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX
XX Sequence 13 BP; 4 A; 6 C; 1 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 9.2%; Score 12; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 1e+02; Mismatches 0; Gaps 0;
XX Matches 12; Conservative 0; Indels 0; Indels 0; Gaps 0;

QY 118 AACGACTATCCC 129
DB 2 AACGACTATCCC 13

RESULT 49
AB199108
ID AB199108 standard; DNA; 15 BP.
XX
XX AB199108;
XX
XX 27-FEB-2002 (first entry)
XX
XX Human PCDH2 ASO PCR primer SEQ ID NO 65.
XX
XX Human; PCDH2; protocadherin 2; haplotyping; polymorphic variant; SNP;
XX single nucleotide polymorphism; cytostatic; cancer; chromosome 5q31;
XX allele-specific oligonucleotide; ASO; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200194361-A2.
XX
XX 13-DEC-2001.
XX
XX 06-JUN-2001; 2001WO-US018321.
XX
XX 06-JUN-2000; 2000US-0209564P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Klien SE, Koshy B, Tanguay DA;
XX WPI, 2002-097928/13.
XX
XX New protocadherin 2 (PCDH2) polymorphic variants and encoding genes,
XX useful in expressing PCDH2 protein for screening candidate drugs to treat
XX diseases related to PCDH2 activity.
XX
XX Claim 16; Page 14; 127pp; English.
XX
XX The invention relates to haplotyping the protocadherin 2 (PCDH2) gene,
XX comprising determining which of the haplotypes given in the specification
XX defines one or both copies of the individual's PCDH2 gene. The
XX polymorphisms are within a 30244 base pair sequence (ABA05413), fully

defining the specification. The polymorphic variants are useful in studying the expression and function of PCDH2, in expressing PCDH2 protein for use in screening for candidate drugs to treat diseases such as cancer, related to PCDH2 activity, in studying the effect of the variation on the biological activity of PCDH2 and the binding affinity of candidate drugs targeting PCDH2. The haplotyping methods are useful in validating PCDH2 as a candidate target for treating a specific condition or disease predicted to be associated with PCDH2 activity or in the design of clinical trials of candidate drugs for treating a specific condition or disease associated with PCDH2 activity. The present sequence is that of a PCDH2 allele-specific oligonucleotide (ASO) PCR primer of the invention

SQ Sequence 15 BP; 2 A; 5 C; 2 G; 5 T; 0 U; 1 Other;

Query Match	9.2%	Score 12	DB 1	Length 15
Best Local Similarity	85.7%	Pred. No. 98		
Matches 12, Conservative	1	Mismatches	0	Gaps 0

```

QY      90 TCTTGATGCCCTG 10:
          |||||
Db      1 TCATGATGCCCTTS 14

```

RESULT 50
AA31622
ID AA31622 standard; DNA; 15 BP.

DT 21-MAY-1999 (first entry)

DE Tag sequence of a transcript increased in pancreatic cancer

KW Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
KW diagnosis; prognosis; treatment; 88.

Homo sapiens.

PN W09853319-A2.

PD 26-NOV-1998.

PF 20-MAY-1998; 98WO-US010277.

PR 21-MAY-1997; 97US-0047352P.

PA (UYJO) UNIV JOHNS HOPKINS.

PI Vogelstein B, Kinzler KW;

DR WPI; 1999-070161/06.

PT Use of isolated gene transcripts - useful for developing products for the
PT diagnosis, prognosis and treatment of cancers, particularly colon and
PT pancreatic cancer.

PS Claim 13; Page 65; 120pp; English.

AX30947-31815 represent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AX30947-31815. The methods of the invention can be used in the diagnosis, prognosis and treatment of cancer.

Sequence 15 BP; 3 A; 4 C; 4 G; 4 T; 0 U; 0 Other;

Query Match	9.0%;	Score	11.8;	DB 1;	Length	15;			
Best Local Similarity	86.7%;	Pred. No. 1e+02;							
Matches	13;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;

```

QY      85 CATCGTCTTGATGCC 99
          ||| ||||| |||
Db      1 CATGGTCTTGAGGCC 15

```

RESULT 51
AAZ62880/c
ID AAZ62880 standard; RNA; 15 BP.

DT 28-MAR-2000 (first entry)

DE Substrate for HH ribozyme HCV-9353 which cleaves HCV RNA at nt. 9353.

KM Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage
KM cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
KM autoimmune disease; ss.

OS Hepatitis C virus.

PN W09955847-A2.

PD 04-NOV-1999.

PF 26-APR-1999; 99MO-US009027.

PR 27-APR-1998; 98US-0083217P.

PR 25-FEB-1999; 99US-00257608.

XX

XX

XX

XX

PT hepatitis C infection.
XX
PS Claim 1; Page 66; 123pp; English.

CC The present sequence represents the

CC The preant sequence represents the preferred target sequence of an
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
CC the Hepatitis C virus (HCV) RNA sequence at the base position given in
CC the descriptor line. The HCV sequence was screened for optimal ribozyme
CC target sites using a computer folding algorithm and regions of the mRNA
CC which did not form secondary folding structures and contained potential
CC ribozyme cleavage sites were identified. Ribozymes were synthesised to
CC target these sites and their activities optimised by either varying the
CC length of the binding arms or by modification to prevent degradation by
CC nucleases. The ribozymes of the invention inhibit gene expression and/or
CC viral replication and are used to treat diseases associated with
CC Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and
CC hepatocellular carcinoma. The ribozymes may be used in combination with
CC interferon to treat HCV infection, other infectious diseases, autoimmune
CC diseases, and cancer

Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;

Query Match	9.0%	Score	11.8;	DB	1;	Length	15;
Best Local Similarity	86.7%;	Pred. No.	1e+02;				
Matches	13;	Conservative	0;	Mismatches	2;	Indels	0;
						Gaps	0;

104 GCAGATAATGCCCTA 118

DB 15 GCAGGTAGTGCTTA 1

RESULT 52

AAFA7620/c
ID AAF47620 standard; DNA; 15 BP.

XX AAF47620;

XX 30-MAR-2001 (first entry)

XX IGFBP3 oligonucleotide #1040.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.

XX Homo sapiens.

XX W0200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000MO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wraight CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.

XX Example 7; Page 50; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX P45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia

XX Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;

XX Query Match 9.0%; Score 11.8; DB 1; Length 15;

XX Best Local Similarity 86.7%; Pred. No. 1e+02; Indels 0; Gaps 0;

XX Matches 13; Conservative 0; Mismatches 2;

XX 93 TGATGCCCTTGCGAG 107

XX DB 15 TCATGCTCTTGCGAG 1

RESULT 53

ABK32576
ID ABK32576 standard; DNA; 15 BP.

XX AC ABK32576;

XX 23-APR-2002 (first entry)

XX Human pancreatic cancer SAGE tag #128.

XX Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
XX serial analysis of gene expression; diagnostic; prognostic; probe;
XX cancer marker; ss.

XX Homo sapiens.

XX US633152-B1.

XX 25-DEC-2001.

XX 20-MAY-1998; 98US-00081646.

XX 20-MAY-1998; 98US-00081646.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Vogelstein B, Kinzler KW, Zhang L, Zhou W;

XX WPI; 2002-153821/20.

XX New human nucleic acid containing specific SAGE tags, useful as
XX diagnostic markers for cancer, also derived probes.

XX Disclosure, Col 77; 161pp; English.

XX The invention relates to an isolated, purified human nucleic acid (1)
XX CC that has the same sequence as a mRNA found in humans and is a SAGE
XX CC (serial analysis of gene expression) tag comprising a single stranded
XX CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
XX CC diagnostic and prognostic markers of cancer, especially of the colon and
XX CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
XX SAGE tags of the invention

XX Sequence 15 BP; 3 A; 4 C; 4 G; 4 T; 0 U; 0 Other;

XX Query Match 9.0%; Score 11.8; DB 1; Length 15;

XX Best Local Similarity 86.7%; Pred. No. 1e+02; Indels 0; Gaps 0;

XX Matches 13; Conservative 0; Mismatches 2;

XX 85 CATTGCTTGAGCC 99

XX DB 1 CATTGCTTGAGCC 15

RESULT 54

XX ABX00731/c
ID ABX00731 standard; RNA; 15 BP.

XX AC ABX00731;

XX 23-DEC-2002 (first entry)

XX Hepatitis C virus substrate #513 for HCV hammerhead ribozyme #513.

XX Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;
XX HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide;
XX liver failure; hepatocellular carcinoma; HCV infection; drug therapy;

XX type I interferon; interferon alpha; interferon beta; cytosolic;
XX interferon gamma; consensus interferon; hepatotropic; antiinflammatory;
XX substrate; hammerhead ribozyme; HH ribozyme; ss.

XX Hepatitis C virus.

XX US2002082225-A1.

XX PN

XX 27-JUN-2002.
PD
XX
XX 23-MAR-1999; 99US-00274553.
PF
XX 23-MAR-1999; 99US-00274553.
PR
XX 23-MAR-1999; 99US-00274553.
XX
XX (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
PA (ROBE/) ROBERTS B.
PA (PAVC/) PAVCO P A.
PA (MACE/) MACEJACK D.
XX
XX Blatt L, Mcswigen JA, Roberts B, Pavco PA, Macejack D;
PI
XX WPI; 2002-617759/66.
DR
XX
XX New ribozymes targeting RNA derived from hepatitis C virus inhibit viral
PT replication and are useful to treat hepatitis C virus infections and
PT cirrhosis, liver failure or hepatocellular carcinoma.
XX
XX
PS Claim 1; Page 35; 80pp; English.
XX
XX The present invention relates to enzymatic nucleic acids which
CC specifically cleave RNA derived from Hepatitis C virus (HCV). The
CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin
CC (HP) motif where the binding arms comprise sequences complementary to one
CC of the substrate sequences defined in the specification. The HCV
CC ribozymes are useful for modulating the expression and/or replication of
CC HCV. They can be used to treat cirrhosis, liver failure and/or
CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating
CC a condition associated with HCV infection in conjunction with one or more
CC other drug therapies, particularly type I interferon, especially
CC interferon alpha, beta or gamma or consensus interferon. The present
CC sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note:
CC Some of the sequence data for this patent did not form part of the
CC printed specification. The complete sequence data for this patent was
CC obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/psipdsidentry.html
XX
SQ Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 1e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 104 GCAGTAAATGCCTA 118
DB 15 GCAGGTAGATGCCTA 1
RESULT 55
ABC28016
ID ABC28016 standard; DNA; 13 BP.
XX
AC ABC28016;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 28033 for detecting SNP TSC0007915.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX

PR 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 28033; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP). The
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 10 TAAAGTAACTTAT 22
DB 1 TAAAGTAACTTAT 13
RESULT 56
ABC53209
ID ABC53209 standard; DNA; 13 BP.
XX
AC ABC53209;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 53226 for detecting SNP TSC0014704.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 53226; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 28 TAATCTATCTAA 40
| | | | |
| | | | |
1 TAATCATCTAAA 13

Db

RESULT 57
ABF13691
ID ABF13691 standard; DNA; 13 BP.
XX
XX ABF13691;
AC
XX
XX 21-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 113688 for detecting SNP TSC0028453.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIDENOMICS AG.
PS
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
PT
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 113688; 29pp + Sequence listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 28 TAATCTATCTAA 40
| | | | |
| | | | |
1 TCATCTATCTAAA 13

Db

RESULT 58
ABC35896
ID ABC35896 standard; DNA; 13 BP.
XX
XX ABC35896;
AC
XX
XX 20-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 35913 for detecting SNP TSC0011308.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIDENOMICS AG.
PS
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
PT
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 35913; 29pp + Sequence listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 ATAAGTGACTTA 21
| | | | |
| | | | |
1 ATAAGTGACTTA 13

Db

RESULT 59

```

ABC5897/c
XX ABC5897 standard; DNA; 13 BP.
AC ABC5897;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 35914 for detecting SNP TSC0011308.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 35914; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;
SQ
XX
XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 9 ATTAGGTGACTTA 21
XX |||||
DB 13 ATTAGGTGACTTA 1
XX |||||
XX
XX RESULT 60
XX ABC13513/c
XX ID ABC13513 standard; DNA; 13 BP.
XX
XX AC ABC13513;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 13520 for detecting SNP TSC0003124.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX

```

```

OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 13520; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 U; 0 Other;
SQ
XX
XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 19 TTATCTTGTAT 31
XX |||||
DB 13 TTATCTTGTAT 1
XX |||||
XX
XX RESULT 61
XX ABF97213
XX ID ABF97213 standard; DNA; 13 BP.
XX
XX AC ABF97213;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 197210 for detecting SNP TSC0048528.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX

```

XX
DR WPI, 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1, SEQ ID NO 197210; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 71 CTAAATTATACCA 83
1 CTTAATTATACCTA 13
DB
RESULT 62
ABF50367
ID ABF50367 standard; DNA; 13 BP.
XX
AC ABF50367;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 150364 for detecting SNP TSC0037941.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
PS Claim 1, SEQ ID NO 150364; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 118 AACGACTATCCCT 130
1 AACCACTATCCCT 13
DB
RESULT 63
ABH33765/C
ID ABH33765 standard; DNA; 13 BP.
XX
AC ABH33765;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 233742 for detecting SNP TSC0057049.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
PS Claim 1, SEQ ID NO 233742; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 118 AACGACTATCCCT 130
1 AACCACTATCCCT 13
DB
RESULT 63
ABH33765/C
ID ABH33765 standard; DNA; 13 BP.
XX
AC ABH33765;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 233742 for detecting SNP TSC0057049.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
PS Claim 1, SEQ ID NO 233742; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 5 GAGTATAAGTGA 17
   |||||
   |||||
Db 13 GAGTATAAGTTA 1

RESULT 64
ABCS3208/c
ID ABCS3208 standard; DNA; 13 BP.
AC ABCS3208;
XX
XX
XX 21-FEB-2002 (first entry)
XX
XX
XX Oligonucleotide SEQ ID NO 53225 for detecting SNP TSC0014704.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 53225; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 U; 0 Other;
SQ

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 28 TAATCATCTTAA 40
   |||||
   |||||
   |||||
Db 13 TAATCATCTTAA 1

RESULT 65
ABC61347
ID ABC61347 standard; DNA; 13 BP.
XX
XX ABC61347;
XX
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DT 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 61364 for detecting SNP TSC0016336.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 61364; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 4 A; 3 C; 0 G; 6 T; 0 U; 0 Other;
SQ

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 18 CTTATACCTTGA 30
   |||||
   |||||
   |||||
Db 1 CTTATACCTTGA 13

RESULT 66
ABC13512
ID ABC13512 standard; DNA; 13 BP.
XX
XX ABC13512;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 13519 for detecting SNP TSC0003124.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
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XX 06-APR-2001, 2001MO-IB000713.
XX PS
XX 07-APR-2000, 2000DE-01019173.
XX PA
XX (EPiG-) EPIGENOMICS AG.
XX PI
XX Olek A, Piepenbrock C, Berlin K;
XX WPI, 2001-657177/75.
XX DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX Claim 1, SEQ ID NO 13519, 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP, 4 A; 0 C; 1 G; 8 T; 0 U; 0 Other;
SQ
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 19 TTACTTGTGAAT 31
DB 1 TTATATTGTGAAT 13
RESULT 67
ABF32342/C
ID ABF32342 standard; DNA; 13 BP.
XX
XX ABF32342;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 13339 for detecting SNP TSC0033015.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001, 2001MO-IB000713.
XX PF
XX 07-APR-2000, 2000DE-01019173.
XX PR
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI, 2001-657177/75.
XX DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
```

```
PT methylation status.
XX
XX Claim 1, SEQ ID NO 132339, 29pp + Sequence Listing; German.
XX PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP, 2 A; 1 C; 5 G; 5 T; 0 U; 0 Other;
SQ
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 118 AACGACTATCCCT 130
DB 13 AACGACTAACCT 1
RESULT 68
ABC61346/C
ID ABC61346 standard; DNA; 13 BP.
XX
XX ABC61346;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 61363 for detecting SNP TSC0016336.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001, 2001MO-IB000713.
XX PF
XX 07-APR-2000, 2000DE-01019173.
XX PR
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI, 2001-657177/75.
XX DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX Claim 1, SEQ ID NO 61363, 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
XX CC represent the oligomers described in the invention. NOTE: The sequence
```

CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 18 CTTATCTCTGTAA 30

DB 13 CTTATCTCTTAA 1

RESULT 69

ABF50366/C

ID ABF50366 standard; DNA; 13 BP.

AC ABF50366;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 150363 for detecting SNP TSC0037941.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1, SEQ ID NO 150363; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

RESULT 70

ABC81417

ID ABC81417 standard; DNA; 13 BP.

AC ABC81417;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 81434 for detecting SNP TSC0020621.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1, SEQ ID NO 81434; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 28 TATCTATCTTAA 40

DB 1 TATCTATCTTAA 13

RESULT 71

ABH00081

ID ABH00081 standard; DNA; 13 BP.

AC ABH00081;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 200058 for detecting SNP TSC0049230.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX MO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIDENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 200058; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 28 TAATCTATCTAAA 40
XX DB 1 TAACCTATCTAAA 13
XX
XX RESULT 72
XX ABF58084/C
XX ID ABF58084 standard; DNA; 13 BP.
XX AC ABF58084;
XX XX
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 158081 for detecting SNP TSC0006685.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIDENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 132340; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 28 TAATCTATCTAAA 40
XX DB 1 TAACCTATCTAAA 13
XX
XX RESULT 72
XX ABF58084/C
XX ID ABF58084 standard; DNA; 13 BP.
XX AC ABF58084;
XX XX
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 158081 for detecting SNP TSC0006685.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIDENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 132340; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic

PA (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 158081; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 13 BP; 3 A; 0 C; 3 G; 7 T; 0 U; 0 Other;
XX
XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 71 CTAATTATACCA 83
XX DB 13 CAAATTTATACCA 1
XX
XX RESULT 73
XX ABF32343
XX ID ABF32343 standard; DNA; 13 BP.
XX AC ABF32343;
XX XX
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 132340 for detecting SNP TSC003015.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIDENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 132340; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
XX
SQ Sequence 13 BP; 5 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 118 AACGACTATCCT 130
DB 1 AACGACTAACCT 13

RESULT 74
ABH01944/c
ID ABH01944 standard; DNA; 13 BP.
XX
AC ABH01944;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 201921 for detecting SNP TSC0049639.
XX
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 201921; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 26 TGTATCTATCTA 38
DB 13 TTTAATCTATCTA 1

RESULT 75
ABH00080/c
ID ABH00080 standard; DNA; 13 BP.
XX
AC ABH00080;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 200057 for detecting SNP TSC0049230.
XX
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 200057; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 28 TATATATCTA 40
DB 13 TAACCTATCTA 1

RESULT 76
ABH02044/c
ID ABH02044 standard; DNA; 13 BP.

XX ABH02044;
AC
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 202021 for detecting SNP TSC0049666.
XX
KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PI (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI, 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 202021; 29pp + Sequence Listing; German.
XX
SQ This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 0 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 24 CTTGAATCTATC 36
DB 13 CTTTAATCTATC 1
XX
RESULT 77
ABF58085
ID ABF58085 standard; DNA; 13 BP.
XX
AC ABF58085;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 158082 for detecting SNP TSC0006685.
XX
KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX

PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PI (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI, 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 158082; 29pp + Sequence Listing; German.
XX
SQ This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 3 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 71 CTTAATTATACCA 83
DB 1 CAAATTATACCA 13
XX
RESULT 78
ABC28017/C
ID ABC28017 standard; DNA; 13 BP.
XX
AC ABC28017;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 28034 for detecting SNP TSC0007915.
XX
KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PI (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI, 2001-657177/75.
XX

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 28034; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 10 TAAGTGACTTAT 22
13 TAAAGTGAAATTAT 1
DB
RESULT 79
ABH20654/c
ID ABH20654 standard; DNA; 13 BP.
AC ABH20654;
XX
XX 22-FEB-2002 (first entry)
DT
XX
DE Oligonucleotide SEQ ID NO 220631 for detecting SNP TSC0053697.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX MO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001MO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX MPI, 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 220631; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 71 CTAAATTATACCA 83
13 CTAAATTATACCA 1
DB
RESULT 80
ABH33764
ID ABH33764 standard; DNA; 13 BP.
AC ABH33764;
XX
XX 22-FEB-2002 (first entry)
DT
XX
DE Oligonucleotide SEQ ID NO 233741 for detecting SNP TSC0057049.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX MO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001MO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX MPI, 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 233741; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      5 GAGTATAGGTGA 17
      |||||
      1 GAGTATAGGTGA 13

RESULT 81
ID      ABH42900 standard; DNA; 13 BP.
XX      ABH42900,
AC      ABH42900,
XX      22-FEB-2002 (first entry)
DT
XX      Oligonucleotide SEQ ID NO 242877 for detecting SNP TSC0059278.
DE
XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX      Homo sapiens.
OS
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-IB000713.
XX      07-APR-2000; 2000DE-01019173.
XX      (EPiG-) EPIGENOMICS AG.
XX      Olek A, Piepenbrock C, Berlin K;
XX      WPI, 2001-657177/75.
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
XX      Claim 1; SEQ ID NO 242877; 29bp + Sequence Listing; German.
XX
XX      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI99989
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
XX      Sequence 13 BP; 4 A; 1 C; 2 G; 6 T; 0 U; 0 Other;
SQ
XX
XX      Query Match      8.7%; Score 11.4; DB 1; Length 13;
XX      Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX      Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      19 TTATCTGTTGTAAT 31
      |||||
      1 TTATCTGTTGTAAT 13

RESULT 82
ID      ABC81416 standard; DNA; 13 BP.
XX      ABC81416,
AC      ABC81416,
XX      21-FEB-2002 (first entry)
DT
XX

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DE      Oligonucleotide SEQ ID NO 81433 for detecting SNP TSC0020621.
XX
XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX      Homo sapiens.
OS
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-IB000713.
XX      07-APR-2000; 2000DE-01019173.
XX      (EPiG-) EPIGENOMICS AG.
XX      Olek A, Piepenbrock C, Berlin K;
XX      WPI, 2001-657177/75.
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
XX      Claim 1; SEQ ID NO 81433; 29bp + Sequence Listing; German.
XX
XX      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI99989
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
XX      Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 U; 0 Other;
SQ
XX
XX      Query Match      8.7%; Score 11.4; DB 1; Length 13;
XX      Best Local Similarity 92.3%; Pred. No. 1.2e+02;
XX      Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      28 TATCTATCTAAA 40
      |||||
      13 TATCTATCTAAA 1

RESULT 83
ID      ABF4034 standard; DNA; 13 BP.
XX      ABF4034,
AC      ABF4034,
XX      21-FEB-2002 (first entry)
DT
XX      Oligonucleotide SEQ ID NO 144031 for detecting SNP TSC0036168.
DE
XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX      Homo sapiens.
OS
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-IB000713.

```

XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 144031; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 29 AATCTATCTTAAC 41
DB 13 AATCTATCTTAAC 1
XX
RESULT 84
ABF94136/C
ID ABF94136 standard; DNA; 13 BP.
XX
AC ABF94136;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 194133 for detecting SNP TSC0047740.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX

PS Claim 1; SEQ ID NO 194133; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 1 C; 3 G; 6 T; 0 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 71 CTAATTATACCA 83
DB 13 CGAATTATACCA 1
XX
RESULT 85
ABF94137
ID ABF94137 standard; DNA; 13 BP.
XX
AC ABF94137;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 194134 for detecting SNP TSC0047740.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 194134; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at

```
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP, 6 A, 3 C, 1 G, 3 T, 0 U, 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 71 CTAAATTATACCA 83
   |||||
   |||||
Db 1 CGAAATTATACCA 13

RESULT 86
ABH01200/c
ID ABH01200 standard; DNA; 13 BP.
XX
AC ABH01200;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 201177 for detecting SNP TSC0007953.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001MO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 201177; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP, 5 A, 0 C, 1 G, 7 T, 0 U, 0 Other;
SQ
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 28 TAATCTATCTAAA 40
   |||||
   |||||
Db 13 TAATATATCTAAA 1
```

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RESULT 87
ABF44035
ID ABF44035 standard; DNA; 13 BP.
XX
AC ABF44035;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 144032 for detecting SNP TSC0036168.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001MO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 144032; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP, 5 A, 3 C, 0 G, 5 T, 0 U, 0 Other;
SQ
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 29 AATCTATCTAAC 41
   |||||
   |||||
Db 1 AATCTATCTAAC 13

RESULT 88
ABH20655
ID ABH20655 standard; DNA; 13 BP.
XX
AC ABH20655;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 220632 for detecting SNP TSC0053697.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
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XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 220632; 29pp + Sequence listing; German.
XX SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 U; 0 Other;

Query Match      8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 71 CTAATTATACCA 83
   |||||
Db 1 CTAATTATACCA 13

RESULT 89
ABF97212/c
ID ABF97212 standard; DNA; 13 BP.
XX AC ABF97212;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 197209 for detecting SNP TSC0048528.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX
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PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 197209; 29pp + Sequence listing; German.
XX SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;

Query Match      8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 71 CTAATTATACCA 83
   |||||
Db 13 CTAATTATACCA 1

RESULT 90
ABH42901/c
ID ABH42901 standard; DNA; 13 BP.
XX AC ABH42901;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 242878 for detecting SNP TSC0059278.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 242878; 29pp + Sequence listing; German.
XX SQ This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

QY 71 CTAATTATACCA 83
   |||||
Db 13 CTAATTATACCA 1

RESULT 90
ABH42901/c
ID ABH42901 standard; DNA; 13 BP.
XX AC ABH42901;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 242878 for detecting SNP TSC0059278.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 242878; 29pp + Sequence listing; German.
XX SQ This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
```


CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
SQ Sequence 13 BP; 6 A; 2 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 19 TTATCTATCTAA 31
13 TTATCTATCTAA 1
Db 13 TTATCTATCTAA 1
RESULT 91
ABH01201
ID ABH01201 standard; DNA; 13 BP.
AC ABH01201;
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 201176 for detecting SNP TSC0007953.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX MO200177384-A2.
PN
XX
XX .18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 201176; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. ABC00010
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 28 TAATCTATCTAA 40
13 TAATCTATCTAA 13
Db 13 TAATCTATCTAA 13
RESULT 92
ABF13690/C
ID ABF13690 standard; DNA; 13 BP.
AC ABF13690;
XX
XX 21-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 113687 for detecting SNP TSC0028453.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX MO200177384-A2.
PN
XX
XX .18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 113687; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 28 TAATCTATCTAA 40
13 TAATCTATCTAA 1
Db 13 TAATCTATCTAA 1
RESULT 93
ABH01945
ID ABH01945 standard; DNA; 13 BP.
AC ABH01945;

XX 22-FEB-2002 (first entry)
 XX Oligonucleotide SEQ ID NO 201922 for detecting SNP TSC0049639.
 DE
 XX
 XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI, 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 CC
 CC Claim 1, SEQ ID NO 201922; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 U; 0 Other;
 XX
 XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 26 TGTATCTATCTA 38
 Db 1 TTTATCTATCTA 13
 XX
 XX RESULT 94
 XX ID ABH02045
 XX ABH02045 strand; DNA; 13 BP.
 XX
 XX ABH02045;
 XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 202022 for detecting SNP TSC0049666.
 DE
 XX
 XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX

PD 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI, 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 CC
 CC Claim 1, SEQ ID NO 202022; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 13 BP; 3 A; 3 C; 0 G; 7 T; 0 U; 0 Other;
 XX
 XX Query Match 8.7%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 1.2e+02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 24 CTTGTATCTATC 36
 Db 1 CTTGTATCTATC 13
 XX
 XX RESULT 95
 XX ID AAT54959/c
 XX AAT54959 strand; RNA; 15 BP.
 XX
 XX AAT54959;
 XX
 XX 25-MAR-2003 (revised)
 XX
 XX 07-APR-1997 (first entry)
 XX
 XX Mouse re1A hammerhead ribozyme target sequence (nt. position 1588).
 DE
 XX
 XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
 KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
 KW intercellular adhesion molecule; rel A; tumor necrosis factor;
 KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
 KW translocation; chronic myelogenous leukemia; CML; cancer;
 KW Philadelphia chromosome; inflammation; autoimmune disease;
 KW atherosclerosis; myocardial infarction; stroke; restenosis;
 KW transplant rejection; rheumatoid arthritis; psoriasis;
 KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
 KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
 XX
 XX
 XX Mus musculus.
 OS
 XX
 XX WO9523225-A2.
 XX
 XX 31-AUG-1995.
 XX
 XX 23-FEB-1995; 95WO-IB000156.
 XX

PR 23-FEB-1994; 94US-00201109.
 PR 29-MAR-1994; 94US-00218934.
 PR 04-APR-1994; 94US-00222795.
 PR 07-APR-1994; 94US-00224483.
 PR 15-APR-1994; 94US-00227958.
 PR 15-APR-1994; 94US-00228041.
 PR 18-MAY-1994; 94US-00245736.
 PR 06-JUL-1994; 94US-00271280.
 PR 15-AUG-1994; 94US-00291932.
 PR 16-AUG-1994; 94US-00291433.
 PR 17-AUG-1994; 94US-00292620.
 PR 19-AUG-1994; 94US-00293520.
 PR 02-SEP-1994; 94US-00300000.
 PR 08-SEP-1994; 94US-00303039.
 PR 23-SEP-1994; 94US-00311486.
 PR 23-SEP-1994; 94US-00311749.
 PR 28-SEP-1994; 94US-00314397.
 PR 03-OCT-1994; 94US-00316771.
 PR 07-OCT-1994; 94US-00319492.
 PR 11-OCT-1994; 94US-00321993.
 PR 04-NOV-1994; 94US-00334847.
 PR 10-NOV-1994; 94US-00337608.
 PR 28-NOV-1994; 94US-00345516.
 PR 16-DEC-1994; 94US-00357577.
 PR 23-DEC-1994; 94US-00363233.
 PR 30-JAN-1995; 95US-00380734.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PI Stinchcomb DT, Chowitra B, Dizenzo A, Draper KG, Dudycz LW;
 PI Grimm S, Karpelsky A, Kisch K, Matulic-Adamic J, Mcswiggen JA;
 PI Modak A, Pavco P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
 PI Tracc D, Usman N, Winocot FE, Woolf T;
 XX WPI, 1995-351090/45.
 XX
 PT Ribozymes having modified bases and methods for producing them - for use
 PT in inhibiting disease related genes.
 XX
 PS Claim 2; Page 226; 407pp; English.
 XX
 CC The present sequence represents a preferred target sequence for an
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves rRNA at the
 CC nucleotide base position indicated in the DE line. The rRNA gene product
 CC is a subunit of the transcriptional regulator NF-kappaB and is implicated
 CC specifically in the induction of inflammatory responses. Regions of the
 CC mRNA that do not form secondary folding structures and that contain
 CC potential hammerhead and hairpin ribozyme cleavage sites were identified
 CC by computer analysis. Ribozymes directed against these mRNA sequences
 CC were designed and synthesised with modifications that improve their
 CC nuclease resistance. The ribozymes are designed to cleave the target
 CC sequences and thereby inhibit rRNA expression, making them potentially
 CC useful for treating rheumatoid arthritis, restenosis and asthma as well
 CC as for increasing tolerance to transplanted tissues. The potential
 CC immunosuppressive properties of a ribozyme that cleaves rRNA means
 CC that uses are limited to local delivery, acute indications or ex vivo
 CC treatment. (Updated on 25-MAR-2003 to correct PI field.)
 CC
 XX
 SQ Sequence 15 BP; 3 A; 4 C; 5 G; 0 T; 3 U; 0 Other;
 QY Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Db Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

AC AAT57042;
 XX
 DT 27-AUG-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 24-APR-1997 (first entry)
 XX
 DE RSV 1C hammerhead ribozyme target sequence (nt. position 366).
 XX
 XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
 KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
 KW intercellular adhesion molecule; rei A; tumour necrosis factor;
 KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
 KW translocation; chronic myelogenous leukaemia; CML; cancer;
 KW Philadelphia chromosome; inflammation; autoimmune disease;
 KW atherosclerosis; myocardial infarction; stroke; restenosis;
 KW transplant rejection; rheumatoid arthritis; psoriasis;
 KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
 KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
 KW 58.
 XX
 OS Respiratory syncytial virus.
 OS
 XX
 PN WO9523225-A2.
 XX
 PD 31-AUG-1995.
 XX
 XX 23-FEB-1995; 95WO-IB000156.
 XX
 PR 23-FEB-1994; 94US-00201109.
 PR 29-MAR-1994; 94US-00218934.
 PR 04-APR-1994; 94US-00222795.
 PR 07-APR-1994; 94US-00224483.
 PR 15-APR-1994; 94US-00227958.
 PR 15-APR-1994; 94US-00228041.
 PR 18-MAY-1994; 94US-00245736.
 PR 06-JUL-1994; 94US-00271280.
 PR 15-AUG-1994; 94US-00291932.
 PR 16-AUG-1994; 94US-00291433.
 PR 17-AUG-1994; 94US-00292620.
 PR 19-AUG-1994; 94US-00293520.
 PR 02-SEP-1994; 94US-00300000.
 PR 08-SEP-1994; 94US-00303039.
 PR 23-SEP-1994; 94US-00311486.
 PR 28-SEP-1994; 94US-00314397.
 PR 03-OCT-1994; 94US-00316771.
 PR 07-OCT-1994; 94US-00319492.
 PR 11-OCT-1994; 94US-00321993.
 PR 04-NOV-1994; 94US-00334847.
 PR 10-NOV-1994; 94US-00337608.
 PR 28-NOV-1994; 94US-00345516.
 PR 16-DEC-1994; 94US-00357577.
 PR 23-DEC-1994; 94US-00363233.
 PR 30-JAN-1995; 95US-00380734.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PI Stinchcomb DT, Chowitra B, Dizenzo A, Draper KG, Dudycz LW;
 PI Grimm S, Karpelsky A, Kisch K, Matulic-Adamic J, Mcswiggen JA;
 PI Modak A, Pavco P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
 PI Tracc D, Usman N, Winocot FE, Woolf T;
 XX WPI, 1995-351090/45.
 XX
 PT Ribozymes having modified bases and methods for producing them - for use
 PT in inhibiting disease related genes.
 XX
 PS Claim 2; Page 270; 407pp; English.
 XX
 CC The present sequence represents a preferred target sequence for an
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves rRNA coding for a
 CC protein of respiratory syncytial virus (RSV) at the nucleotide base
 CC position indicated in the DE line. Regions of the mRNA that do not form

CC secondary folding structures and that contain potential hammerhead and
 CC hairpin ribozyme cleavage sites were identified by computer analysis.
 CC Ribozymes directed against these mRNA sequences were designed and
 CC synthesised with modifications that improve their nuclease resistance.
 CC The ribozymes cleave the target sequences and can be used for treatment
 CC and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI
 CC field.) (Updated on 27-AUG-2003 to correct OS field.)
 XX
 SQ Sequence 15 BP; 4 A; 2 C; 4 G; 0 T; 5 U; 0 Other;
 QY Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 DB 52 TCTAGTAGCAAT 64
 13 TCTAGTAGCAAT 1
 RESULT 97
 AAT57041/c
 ID AAT57041 standard; RNA; 15 BP.
 XX
 AC AAT57041;
 XX
 DT 27-AUG-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 24-APR-1997 (first entry)
 XX
 DE RSV 1C hammerhead ribozyme target sequence (nt. position 364).
 XX
 KM Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
 KM gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
 KM intercellular adhesion molecule; rel A; tumour necrosis factor;
 KM TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
 KM translocation; chronic myelogenous leukaemia; CML; cancer;
 KM Philadelphia chromosome; inflammation; autoimmune disease;
 KM atherosclerosis; myocardial infarction; stroke; restenosis;
 KM transplant rejection; rheumatoid arthritis; psoriasis;
 KM myocardial ischaemia; Kawasaki disease; septic shock; HIV;
 KM human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
 KM ss.
 XX
 OS Respiratory syncytial virus.
 XX
 PN MO9523225-A2.
 PD 31-AUG-1995.
 XX
 DT 23-FEB-1995; 95WO-IB000156.
 XX
 PF 23-FEB-1994; 94US-00201109.
 PR 29-MAR-1994; 94US-00218934.
 PR 04-APR-1994; 94US-00222795.
 PR 07-APR-1994; 94US-00224483.
 PR 15-APR-1994; 94US-00227958.
 PR 15-APR-1994; 94US-00228041.
 PR 18-MAY-1994; 94US-00245736.
 PR 06-JUL-1994; 94US-00271280.
 PR 15-AUG-1994; 94US-00291932.
 PR 16-AUG-1994; 94US-00291433.
 PR 17-AUG-1994; 94US-00293620.
 PR 19-AUG-1994; 94US-00293520.
 PR 02-SEP-1994; 94US-00300000.
 PR 08-SEP-1994; 94US-00303039.
 PR 23-SEP-1994; 94US-00311486.
 PR 23-SEP-1994; 94US-00311749.
 PR 28-SEP-1994; 94US-00314397.
 PR 03-OCT-1994; 94US-00316771.
 PR 07-OCT-1994; 94US-00319492.
 PR 11-OCT-1994; 94US-00321993.
 PR 04-NOV-1994; 94US-00334847.
 PR 10-NOV-1994; 94US-00337608.

PR 28-NOV-1994; 94US-00345516.
 PR 16-DEC-1994; 94US-00357577.
 PR 23-DEC-1994; 94US-00363233.
 PR 30-JUN-1995; 95US-00380734.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Stinchcomb DT, Chowira B, Dizenzo A, Draper KG, Dudycz LM;
 PI Grimm S, Karpelsky A, Kisch K, Matulic-Adamic J, Mcswiggen JA;
 PI Modak A, Pavco P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
 PI Tracz D, Usman N, Wincott FB, Woolf T;
 XX
 DR WPI, 1995-351090/45.
 XX
 PT Ribozymes having modified bases and methods for producing them - for use
 PT in inhibiting disease related genes.
 PS Claim 2, Page 270; 407pp; English.
 XX
 CC The present sequence represents a preferred target sequence for an
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a
 CC protein of respiratory syncytial virus (RSV) at the nucleotide base
 CC position indicated in the DB line. Regions of the mRNA that do not form
 CC secondary folding structures and that contain potential hammerhead and
 CC hairpin ribozyme cleavage sites were identified by computer analysis.
 CC Ribozymes directed against these mRNA sequences were designed and
 CC synthesised with modifications that improve their nuclease resistance.
 CC The ribozymes cleave the target sequences and can be used for treatment
 CC and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI
 CC field.) (Updated on 27-AUG-2003 to correct OS field.)
 XX
 SQ Sequence 15 BP; 5 A; 2 C; 3 G; 0 T; 5 U; 0 Other;
 QY Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 DB 52 TCTAGTAGCAAT 64
 15 TCTAGTAGCAAT 3
 RESULT 98
 AAX65300/c
 ID AAX65300 standard; RNA; 15 BP.
 XX
 AC AAX65300;
 XX
 DT 20-JUL-1999 (first entry)
 XX
 DE Mouse B7-1 hammerhead ribozyme target SEQ ID NO:1932.
 XX
 KM Arthritic condition; graft tolerance; immune response; target; cleavage;
 KM hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;
 KM streptolysin; synovial membrane; joint; arthritis; osteoarthritis;
 KM rheumatoid arthritis; autoimmune disease; allergy; inflammation;
 KM diagnosis; ss.
 XX
 OS Mus sp.
 XX
 PN WO9618736-A2.
 PD 20-JUN-1996.
 XX
 DT 22-NOV-1995; 95WO-US015516.
 XX
 PF 13-DEC-1994; 94US-00354920.
 PR 23-DEC-1994; 94US-00363253.
 PR 17-FEB-1995; 94US-00360850.
 PR 20-APR-1995; 95US-00426124.
 PR 02-MAY-1995; 95US-00432874.
 PR 04-MAY-1995; 95US-00434509.

PR 07-JUL-1995; 95US-0000951P.
PR 07-JUL-1995; 95US-0000974P.
PR 07-AUG-1995; 95US-00512861.
PR 05-OCT-1995; 95US-00541365.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI Belgelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P,
PI Mcswigen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J,
PI Karpelsky A, Thompson JD, Modak A, Burgin A;
XX MPI; 1996-300653/30.
XX
PT Enzymatic nucleic acid molecules having a hammer-head motif - used for
PT the treatment of arthritis, induction of graft tolerance or treatment of
PT auto-immune diseases.
XX
PS Claim 10; Page 179; 307pp; English.
XX
XX The present invention describes a novel enzymatic nucleic acid (ENA)
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
CC ; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
CC ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
CC can inhibit collagenase and stromelysin production in the synovial
CC membrane of joints for the treatment or prevention of arthritis,
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
CC be used to treat antigen presenting cells of a donor to induce tolerance
CC in a recipient to an alloantigen of a donor. They can also be used for
CC enhancing graft tolerance or for treating autoimmune disease, and for
CC treating allergies and other inflammatory conditions. The ENA's can also
CC be used in diagnosis. Ribozyme therapy impacts on the expression of
CC stromelysin without introducing the non-specific effects upon gene
CC expression which accompany treatment with retinoids and dexamethasone.
CC The concentration of ribozyme required to affect a therapeutic treatment
CC is lower than that required of antisense molecules, and is highly
CC specific. The present sequence is used in the exemplification of the
CC present invention
XX
SQ Sequence 15 BP; 5 A; 4 C; 3 G; 0 T; 3 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 87 TCGCTCTTGATGCC 99
Db 15 TCGTATTGATGCC 3
XX
RESULT 99
AAK65299/c
ID AAK65299 standard; RNA; 15 BP.
XX
AC AAK65299;
XX
XX 20-JUL-1999 (first entry)
XX
DE Mouse B7-1 hammerhead ribozyme target SEQ ID NO:1931.
XX
XX
XX Arthritic condition; graft tolerance; immune response; target; cleavage;
KW hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;
KW stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
KW rheumatoid arthritis; autoimmune disease; allergy; inflammation;
KW diagnosis; ss.
XX
XX Mus gp.
XX
XX WO9618736-A2.
XX
XX 20-JUN-1996.
XX
XX 22-NOV-1995; 95WO-US015516.
XX

PR 13-DEC-1994; 94US-00354920.
PR 23-DEC-1994; 94US-00363253.
PR 23-DEC-1994; 94US-00363254.
PR 17-FEB-1995; 95US-00390850.
PR 20-APR-1995; 95US-00426124.
PR 02-MAY-1995; 95US-00432874.
PR 04-MAY-1995; 95US-00434509.
PR 07-JUL-1995; 95US-0000951P.
PR 07-JUL-1995; 95US-0000974P.
PR 07-AUG-1995; 95US-00512861.
PR 05-OCT-1995; 95US-00541365.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI Belgelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P,
PI Mcswigen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J,
PI Karpelsky A, Thompson JD, Modak A, Burgin A;
XX MPI; 1996-300653/30.
XX
XX Enzymatic nucleic acid molecules having a hammer-head motif - used for
PT the treatment of arthritis, induction of graft tolerance or treatment of
PT auto-immune diseases.
XX
PS Claim 10; Page 179; 307pp; English.
XX
XX The present invention describes a novel enzymatic nucleic acid (ENA)
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
CC ; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
CC ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
CC can inhibit collagenase and stromelysin production in the synovial
CC membrane of joints for the treatment or prevention of arthritis,
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
CC be used to treat antigen presenting cells of a donor to induce tolerance
CC in a recipient to an alloantigen of a donor. They can also be used for
CC enhancing graft tolerance or for treating autoimmune disease, and for
CC treating allergies and other inflammatory conditions. The ENA's can also
CC be used in diagnosis. Ribozyme therapy impacts on the expression of
CC stromelysin without introducing the non-specific effects upon gene
CC expression which accompany treatment with retinoids and dexamethasone.
CC The concentration of ribozyme required to affect a therapeutic treatment
CC is lower than that required of antisense molecules, and is highly
CC specific. The present sequence is used in the exemplification of the
CC present invention
XX
SQ Sequence 15 BP; 5 A; 4 C; 3 G; 0 T; 3 U; 0 Other;
XX
Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 87 TCGCTCTTGATGCC 99
Db 15 TCGTATTGATGCC 3
XX
RESULT 100
AAK31607/c
ID AAK31607 standard; DNA; 15 BP.
XX
AC AAK31607;
XX
XX 21-MAY-1999 (first entry)
XX
DE Tag sequence of a transcript increased in pancreatic cancer.
XX
XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
KW diagnosis; prognosis; treatment; ss.
XX
XX Homo sapiens.
XX
XX WO9853319-A2.
XX

PD 26-NOV-1998.
 XX
 PF 20-MAY-1998; 98MO-US010277.
 XX
 PR 21-MAY-1997; 97US-0047352P.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Vogelstein B, Kinzler KW;
 XX
 DR WPI; 1999-070161/06.
 XX
 PT Use of isolated gene transcripts - useful for developing products for the
 PT diagnosis, prognosis and treatment of cancers, particularly colon and
 PT pancreatic cancer.
 XX
 PS Claim 13; Page 64; 120pp; English.
 XX
 CC AAX30947-31815 represent tag sequences of transcripts that are
 CC differentially expressed in colorectal cancer, in pancreatic cancer, or
 CC in both. The tag sequences can be used to identify genes by matching the
 CC tag to a gen data base member, or by using the tag sequences as probes to
 CC isolate unidentified genes from cDNA libraries. The tag sequences can
 CC also be used in a method for diagnosing colon or pancreatic cancer in a
 CC sample suspected of being neoplastic. The method comprises comparing the
 CC level of at least one transcript in a first sample of a tissue to a
 CC second sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic tissue.
 CC The transcript is identified by a tag selected from AAX30947-31815. The
 CC methods of the invention can be used in the diagnosis, prognosis and
 CC treatment of cancer
 CC
 SQ Sequence 15 BP; 2 A; 2 C; 6 G; 5 T; 0 U; 0 Other;
 XX
 QY Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Db Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 58 AGACATCCCGTG 70
 13 AGCATTCCCATG 1
 Db
 RESULT 101
 AAF48426/c
 ID AAF48426 standard; DNA; 15 BP.
 AC AAF48426;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP3 oligonucleotide #1846.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000MO-AU000693.
 XX
 PR 21-JUN-1999; 99US-0140345P.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 DR

XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX
 PS Example 7; Page 56; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, ptyriasis, ruba, pilaris, seborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 CC
 SQ Sequence 15 BP; 5 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
 XX
 QY Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Db Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 83 AGCATGCTTGA 95
 14 AGCTTGCTTGA 2
 Db
 RESULT 102
 AAF48427/c
 ID AAF48427 standard; DNA; 15 BP.
 AC AAF48427;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP3 oligonucleotide #1847.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000MO-AU000693.
 XX
 PR 21-JUN-1999; 99US-0140345P.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.

```

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenesc nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 7, Page 56; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrheoa, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina, a
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 6 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 83 AGCATGCTCTTGA 95
Db 13 AGCTTCGCTTGA 1
RESULT 103
AAF47618/c
ID AAF47618 standard; DNA; 15 BP.
XX
AC AAF47618;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGFBP3 oligonucleotide #1038.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; seborrheoa; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
XX WPI, 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenesc nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX

```

```

PT inflammation.
XX
PS Example 7, Page 50; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrheoa, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina, a
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 95 ATGCCCTTGCGAG 107
Db 15 ATGTCCTTGCGAG 3
RESULT 104
AAF47619/c
ID AAF47619 standard; DNA; 15 BP.
XX
AC AAF47619;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGFBP3 oligonucleotide #1039.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; seborrheoa; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
XX WPI, 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenesc nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 7, Page 50; 201pp; English.
XX

```

CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F5161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia

SO Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 95 ATGCCCTGGCAG 107
DB 14 ATGTCCTGGCAG 2

RESULT 105
AAFA8425/C
ID AAF48425 standard; DNA; 15 BP.
AC AAF48425;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGFBP3 oligonucleotide #1845.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KM cytostatic; dermatological; cardiant; virocidic; ophthalmological; keloid;
KM skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; Pityriasis;
KM IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KM growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
KM keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KM hyperneovascular condition; hyperplasia; kidney disease;
KM neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wraight CJ, Werther GA, Edmondson SR;
PI WPI, 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 7; Page 56; 2010P; English.
XX
XX The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F5161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia

SO Sequence 15 BP; 6 A; 4 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 83 AGCATGCTTGA 95
DB 15 AGCTGCTTGA 3

RESULT 106
AAS19622
ID AAS19622 standard; DNA; 15 BP.
XX
AC AAS19622;
XX
DT 26-MAR-2002 (first entry)
XX
DE ASO primer #1 to detect human GHRHR gene polymorphisms.
XX
XX Human; single nucleotide polymorphism; SNP; GHRHR; chromosome 7p14;
KM growth hormone releasing hormone receptor; haplotyping; genotyping;
KM isolated growth hormone deficiency; IGHD; pituitary adenoma; ASO;
KM allele-specific oligonucleotide; primer; ss.
XX
XX Homo sapiens.
OS
XX
PN WO200179239-A2.
XX
PD 25-OCT-2001.
XX
PF 17-APR-2001; 2001WO-US012453.
XX
PR 17-APR-2000; 2000US-0197978P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
XX Chew A, Choi JY, Denton RR, Nandabalan K, Sausker EA;
PI WPI, 2002-066342/09.
XX
XX Genotyping human Growth hormone releasing hormone receptor gene of
PT individual for determining haplotype of individual by determining
PT identity of nucleotide pair at specific polymorphic sites for two copies
PT of gene.
XX
XX Claim 16; Page 14; 900P; English.
XX
XX The present invention relates to novel single nucleotide polymorphisms
CC (SNPs) in the human growth hormone releasing hormone receptor (GHRHR)
CC gene located on chromosome 7p14, and methods for haplotyping and/or
CC genotyping the GHRHR gene. The methods of the invention make use of
CC allele-specific oligonucleotides (ASOs) as probes and primers and/or
CC primer-extensions oligonucleotides for detecting the GHRHR gene
CC polymorphisms. The polymorphisms and screened compounds are useful for
CC the treatment of diseases associated with GHRHR activity, such as
CC isolated growth hormone deficiency (IGHD) and pituitary adenoma.
CC AAS19622-AAS19647 represent ASO primers for detecting human GHRHR gene
CC polymorphisms
XX

SQ Sequence 15 BP; 5 A; 2 C; 6 G; 1 T; 0 U; 1 Other;
 Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 1.1e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 2 CCTGAGTATTAAGTG 16
 DB 1 CCAGAGTGAAGG 15
 RESULT 107
 ABK32561/C
 ID ABK32561 standard; DNA; 15 BP.
 XX
 AC ABK32561;
 XX
 DT 23-APR-2002 (first entry)
 XX
 DE Human pancreatic cancer SAGE tag #113.
 XX
 KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 KW serial analysis of gene expression; diagnostic; prognostic; probe;
 KW cancer marker; ss.
 XX
 OS Homo sapiens.
 XX
 PS US633152-B1.
 XX
 PD 25-DEC-2001.
 XX
 PF 20-MAY-1998; 98US-00081646.
 XX
 PR 20-MAY-1998; 98US-00081646.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
 XX
 DR WPI; 2002-153821/20.
 XX
 PT New human nucleic acid containing specific SAGE tags, useful as
 PT diagnostic markers for cancer, also derived probes.
 XX
 PS Disclosure; Col 76; 161pp; English.
 XX
 CC The invention relates to an isolated, purified human nucleic acid (I)
 CC that has the same sequence as a mRNA found in humans and is a SAGE
 CC (serial analysis of gene expression) tag comprising a single stranded
 CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
 CC diagnostic and prognostic markers of cancer, especially of the colon and
 CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
 CC SAGE tags of the invention
 CC
 XX
 SQ Sequence 15 BP; 2 A; 2 C; 6 G; 5 T; 0 U; 0 Other;
 Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 1.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 58 AGCAATCCCGTG 70
 DB 13 AGCAATCCCATG 1
 RESULT 108
 AB121898/C
 ID AB121898 standard; DNA; 12 BP.
 XX
 AC AB121898;
 XX
 DT 22-FEB-2002 (first entry)
 XX

DE Oligonucleotide primer SEQ ID NO 321871 for detecting SNP TSC0030537.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 FN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-1B000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 321871; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC9989, ABP0010-ABP9989, ABH0010-ABH9989 and AB10010-AB12073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pat_sequences
 CC
 XX
 SQ Sequence 12 BP; 3 A; 0 C; 3 G; 6 T; 0 U; 0 Other;
 Query Match 8.4%; Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 73 AAATTATACCA 83
 DB 12 AAATTATACCA 2
 RESULT 109
 ABH80958/C
 ID ABH80958 standard; DNA; 12 BP.
 XX
 AC ABH80958;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 280951 for detecting SNP TSC0009274.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 FN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-1B000713.
 XX

XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 280951; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 72 TAAATTATACC 82
DB 11 TAAATTATACC 1
RESULT 110
AB176786
ID AB176786 standard; DNA; 12 BP.
XX AB176786;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide primer SEQ ID NO 376759 for detecting SNP TSC0005783.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX

PS Claim 1; SEQ ID NO 376759; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 71 CTAAATTATAC 81
DB 2 CTAAATTATAC 12
RESULT 111
AB117426
ID AB117426 standard; DNA; 12 BP.
XX AB117426;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide primer SEQ ID NO 317399 for detecting SNP TSC0027974.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 317399; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 12 BP, 5 A; 2 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 CTAAATTATAC 61
DB 2 CTAAATTATAC 12

RESULT 112

AB112345
ID AB112345 standard; DNA; 12 BP.

AC AB112345;

XX 22-FEB-2002 (first entry)

DT Oligonucleotide primer SEQ ID NO 312318 for detecting SNP TSC0025000.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIDENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

XX Claim 1; SEQ ID NO 312318; 29pp + Sequence listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989, and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP, 5 A; 0 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGAGTATAGG 14
DB 1 TGAGTATAGG 11

RESULT 113
AB148995/C
ID AB148995 standard; DNA; 12 BP.

AC AB148995;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 348968 for detecting SNP TSC0045843.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIDENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

XX Claim 1; SEQ ID NO 348968; 29pp + Sequence listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989, and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP, 5 A; 0 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 AATCTATCTAA 39
DB 12 AATCTATCTAA 2

RESULT 114
AB170304/C
ID AB170304 standard; DNA; 12 BP.

AC AB170304;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 370277 for detecting SNP TSC0058089.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

```
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIC-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PS
XX Claim 1; SEQ ID NO 370277; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ
XX Sequence 12 BP; 4 A; 0 C; 4 G; 4 T; 0 U; 0 Other;
SQ
XX
XX Query Match 8.4%; Score 11; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 31 TCTATCTAAC 41
XX |||||
XX 11 TCTATCTAAC 1
XX
XX RESULT 115
XX AB119205/C
XX ID AB119205 standard; DNA; 12 BP.
XX
XX ABI19205;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 319178 for detecting SNP TSC0029109.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
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```
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 319178; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 1 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 8.4%; Score 11; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 115 CCTACGACTA 125
XX |||||
XX 11 CCTACGACTA 1
XX
XX RESULT 116
XX AB100255/C
XX ID AB100255 standard; DNA; 12 BP.
XX
XX AB100255;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 300228 for detecting SNP TSC0018915.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 300228; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
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CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
CC
CC
CC
SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 CTAAATTATAC 81
DB 11 CTAAATTATAC 1

RESULT 117
ABI04248
ID ABI04248 standard; DNA; 12 BP.
XX
AC ABI04248;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 304221 for detecting SNP TSC0020826.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIC-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 304221; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
CC
CC
SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred.No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 CTAAATTATAC 81
DB 1 CTAAATTATAC 11

RESULT 118
ABH8751/C
ID ABH8751 standard; DNA; 12 BP.
XX
AC ABH8751;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 288744 for detecting SNP TSC0013654.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIC-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 288744; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
CC
CC
SQ Sequence 12 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GTATAAGTGA 17
DB 12 GTATAAGTGA 2

RESULT 119
ABH83435
ID ABH83435 standard; DNA; 12 BP.
XX
AC ABH83435;

XX 22-FEB-2002 (first entry)
DT Oligonucleotide primer SEQ ID NO 283428 for detecting SNP TSC0011305.
DE
XX
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
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XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 283428; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
XX
SQ Sequence 12 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred.No.1.3e+02; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 0;
QY 31 TCTATCTAAAC 41
Db 2 TCTATCTAAAC 12
RESULT 120
AB171223/C
ID AB171223 standard; DNA; 12 BP.
XX
XX AB171223;
AC
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide primer SEQ ID NO 371196 for detecting SNP TSC0058640.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX

PD 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 371196; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
XX
SQ Sequence 12 BP; 5 A; 0 C; 3 G; 4 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred.No.1.3e+02; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 0;
QY 31 TCTATCTAAAC 41
Db 12 TCTATCTAAAC 2
RESULT 121
AB170151/C
ID AB170151 standard; DNA; 12 BP.
XX
XX AB170151;
AC
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide primer SEQ ID NO 370124 for detecting SNP TSC0058010.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT

PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

XX
XX Claim 1; SEQ ID NO 370124; 29pp + Sequence Listing; German.

XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABB00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WFO at
CC ftp.wipo.int/pub/published_pct_sequences

XX
XX Sequence 12 BP; 3 A, 0 C, 2 G, 7 T, 0 U, 0 Other;

XX
XX Query Match 8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Db Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 73 AAATTATACCA 83
|||
|||
12 AAATTATACCA 2

RESULT 122

AB130589
ID AB130589 standard; DNA; 12 BP.

XX
XX AB130589;

XX
XX 22-FEB-2002 (first entry)

XX
XX Oligonucleotide primer SEQ ID NO 330562 for detecting SNP TSC0035580.

XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; 89;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.

OS
XX
XX WO200177384-A2.

XX
XX 18-OCT-2001.

XX
XX PD 06-APR-2001; 2001WO-IB000713.

XX
XX PF 07-APR-2000; 2000DE-01019173.

PR
XX
XX (EPIC-) EPIDENOMICS AG.

PA
XX
XX Olek A, Plopenbrock C, Berlin K;

PI
XX
XX WPI; 2001-657177/75.

DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 330562; 29pp + Sequence Listing; German.

XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABB00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WFO at
CC ftp.wipo.int/pub/published_pct_sequences

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CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
XX
SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 U; 0 Other;

Query Match      8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      28 TAACTATCTA 38
        |||||
        2 TAACTATCTA 12

RESULT 123
ABI339973
ID ABI339973 standard; DNA; 12 BP.
XX
XX ABI339973;
XX
XX DT 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 339946 for detecting SNP TSC0007645.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR MPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX PS Claim 1; SEQ ID NO 339946; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pre-treated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 U; 0 Other;

Query Match      8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      72 TAAATATACC 82
        |||||

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DB      1 TAAATTATAC 11
RESULT 124
ABH83015
ID      ABH83015 standard; DNA; 12 BP.
XX
AC      ABH83015;
XX
DT      22-FEB-2002 (first entry)
XX
DE      Oligonucleotide primer SEQ ID NO 283008 for detecting SNP TSC0011092.
XX
XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
XX      MO200177384-A2.
XX
XX      18-OCT-2001.
XX
XX      06-APR-2001; 2001WO-IB000713.
XX
XX      07-APR-2000; 2000DE-01019173.
XX
XX      (EPIG-) EPIGENOMICS AG.
XX
XX      Olek A, Piepenbrock C, Berlin K;
XX
XX      WPI; 2001-657177/75.
XX
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
XX      Claim 1; SEQ ID NO 283008; 29pp + Sequence Listing; German.
XX
XX      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match      8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY      73 TAAATTATACCA 83
DB      1 AATTATACCA 11
XX
RESULT 125
ABH86779/c
ID      ABH86779 standard; DNA; 12 BP.
XX
XX      ABH86779;
XX
DT      22-FEB-2002 (first entry)
XX
DE      Oligonucleotide primer SEQ ID NO 286772 for detecting SNP TSC0012815.
XX

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KM      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
XX      MO200177384-A2.
XX
XX      18-OCT-2001.
XX
XX      06-APR-2001; 2001WO-IB000713.
XX
XX      07-APR-2000; 2000DE-01019173.
XX
XX      (EPIG-) EPIGENOMICS AG.
XX
XX      Olek A, Piepenbrock C, Berlin K;
XX
XX      WPI; 2001-657177/75.
XX
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
XX      Claim 1; SEQ ID NO 286772; 29pp + Sequence Listing; German.
XX
XX      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 U; 0 Other;
XX
Query Match      8.4%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY      72 TAAATTATAC 82
DB      11 TAAATTATAC 1
XX
RESULT 126
ABC69069
ID      ABC69069 standard; DNA; 13 BP.
XX
XX      ABC69069;
XX
DT      21-FEB-2002 (first entry)
XX
DE      Oligonucleotide SEQ ID NO 69086 for detecting SNP TSC0017981.
XX
XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
XX      MO200177384-A2.
XX
XX      18-OCT-2001.
XX
XX      06-APR-2001; 2001WO-IB000713.
XX
XX      07-APR-2000; 2000DE-01019173.
XX

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XX (EPIC-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI, 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX Claim 1, SEQ ID NO 69086; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;
XX
XX Query Match      8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 72 TAAATTATACC 82
XX      |||||
XX      3 TAAATTATACC 13
XX
XX RESULT 127
XX ABF05684/C
XX ID ABF05684 standard; DNA; 13 BP.
XX AC ABF05684;
XX XX
XX DT 21-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 105681 for detecting SNP TSC0026488.
XX
XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR MPI, 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX Claim 1; SEQ ID NO 105681; 29pp + Sequence Listing; German.
XX
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CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
CC Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 U; 0 Other;
CC
CC Query Match      8.4%; Score 11; DB 1; Length 13;
CC Best Local Similarity 100.0%; Pred. No. 1.3e+02;
CC Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC
CC QY 72 TAAATTATACC 82
CC      |||||
CC      12 TAAATTATACC 2
CC
CC Db
CC
CC RESULT 128
CC ABC87292
CC ID ABC87292 standard; DNA; 13 BP.
CC AC ABC87292;
CC XX
CC DT 21-FEB-2002 (first entry)
CC
CC DE Oligonucleotide SEQ ID NO 87309 for detecting SNP TSC0021951.
CC
CC SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
CC peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
CC Homo sapiens.
CC WO200177384-A2.
CC PD 18-OCT-2001.
CC PF 06-APR-2001; 2001WO-IB000713.
CC PR 07-APR-2000; 2000DE-01019173.
CC XX
CC PA (EPIC-) EPIGENOMICS AG.
CC PI Olek A, Piepenbrock C, Berlin K;
CC DR MPI, 2001-657177/75.
CC XX
CC PT Set of oligonucleotides, useful for diagnosis and cell typing, is
CC designed to detect single-nucleotide polymorphisms and cytosine
CC methylation status.
CC Claim 1, SEQ ID NO 87309; 29pp + Sequence Listing; German.
CC
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
```

SQL Sequence 13 BP; 5 A; 0 C; 5 G; 3 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred.No.1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GAGTATTAAGT 15
DB 3 GAGTATTAAGT 13
RESULT 129
ABH22531/c
ID ABH22531 standard; DNA; 13 BP.
XX
AC ABH22531;
XX
DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 222508 for detecting SNP TSC0054138.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1, SEQ ID NO 222508; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred.No.1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 6 AGTATTAAGTG 16
DB 13 AGTATTAAGTG 3
RESULT 130
ABF16585/c

ID ABF16585 standard; DNA; 13 BP.
XX
XX ABF16585;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 116582 for detecting SNP TSC0029177.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX MO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1, SEQ ID NO 116582; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 3 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred.No.1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GAGTATTAAGT 15
DB 11 GAGTATTAAGT 1
RESULT 131
ABF17819
ID ABF17819 standard; DNA; 13 BP.
XX
XX ABF17819;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 117816 for detecting SNP TSC0029452.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.

XX PN MO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX PS MPI; 2001-657177/75.
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1, SEQ ID NO 117816; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 0 U; 1 Other;
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
OY 16 GACTTACTTGT 28
DB 1 RACTTACTTAT 13
XX
XX RESULT 132
XX ABR23104/C
XX ID ABR23104 standard; DNA; 13 BP.
XX AC ABR23104;
XX XX
XX DT 21-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide SEQ ID NO 123101 for detecting SNP TSC0030780.
XX XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX PN MO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX CC

DR MPI; 2001-657177/75.
XX XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1, SEQ ID NO 123101; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 31 TCTATCTAAC 41
DB 13 TCTATCTAAC 3
XX
XX RESULT 133
XX ABR31691
XX ID ABR31691 standard; DNA; 13 BP.
XX AC ABR31691;
XX XX
XX DT 21-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide SEQ ID NO 131688 for detecting SNP TSC0032867.
XX XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX PN MO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX XX
XX DR MPI; 2001-657177/75.
XX XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1, SEQ ID NO 131688; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABFC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC

XX SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 11; DB 1; Length 13;

XX Best Local Similarity 100.0%; Pred. No. 1.3e+02; Mismatches 0; Gaps 0;

XX Matches 11; Conservative 0; Indels 0; Gaps 0;

XX Db 73 AAATTATACCA 83

1 AAATTATACCA 11

XX RESULT 134

XX ABC69068/c

XX ABC69068 standard; DNA; 13 BP.

XX AC ABC69068;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 69085 for detecting SNP TSC0017981.

XX SN, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 69085; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABFC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 11; DB 1; Length 13;

XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 72 TAAATTATACC 82

11 TAAATTATACC 1

XX RESULT 135

XX ABF46246/c

XX ABF46246 standard; DNA; 13 BP.

XX AC ABF46246;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 146243 for detecting SNP TSC0036845.

XX SN, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 146243; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABFC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 11; DB 1; Length 13;

XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Db 28 TAACTATCTA 38

11 TAACTATCTA 1

XX RESULT 136

XX ABF57605

XX ID ABF57605 standard; DNA; 13 BP.

XX AC ABF57605;

XX DT 21-FEB-2002 (first entry)

```

XX DE Oligonucleotide SEQ ID NO 157602 for detecting SNP TSC0039698.
XX
XX KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX PS Claim 1; SEQ ID NO 157602; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 U; 0 Other;

Query Match      8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 AAATATATACCA 83
   |||||
   1 AAATATATACCA 11

RESULT 137
ABH10656
ID ABH10656 standard; DNA; 13 BP.
AC ABH10656;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 210633 for detecting SNP TSC0051423.
XX
XX KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX

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PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX PS Claim 1; SEQ ID NO 210633; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 5 A; 0 C; 1 G; 6 T; 0 U; 1 Other;

Query Match      8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 20 TATATCTGTATATC 32
   |||||
   1 TATATCTGTATAT 13

RESULT 138
ABH37264/c
ID ABH37264 standard; DNA; 13 BP.
AC ABH37264;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 237241 for detecting SNP TSC0057862.
XX
XX KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX

```

XX Claim 1, SEQ ID NO 237241, 29bp + Sequence Listing; German.
PS
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP, 4 A, 0 C, 2 G, 7 T, 0 U, 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 30 ATCTATCTAA 40
DB 13 ATCTATCTAA 3
RESULT 139
ABH03008/C
ID ABH03008 standard; DNA; 13 BP.
XX
AC ABH03008;
XX
DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 202985 for detecting SNP TSC0049850.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPig-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1, SEQ ID NO 202985; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but

CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP, 4 A, 0 C, 3 G, 5 T, 0 U, 1 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 73 AAATTATACCAG 85
DB 13 AAATTATACCAG 1
RESULT 140
ABC68529
ID ABC68529 standard; DNA; 13 BP.
XX
AC ABC68529;
XX
DT 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 68546 for detecting SNP TSC0017868.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPig-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1, SEQ ID NO 68546; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP, 6 A, 3 C, 0 G, 4 T, 0 U, 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 73 AAATTATACCAG 83
DB 1 AAATTATACCAG 11

```
RESULT 141
ABF39158/C
ID ABF39158 standard; DNA; 13 BP.
XX
AC ABF39158;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 139155 for detecting SNP TSC0034856.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 139155; 29bp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 30 ATCTATCTATAA 40
Db 12 ATCTATCTATAA 2
XX
RESULT 142
ABH36296/C
ID ABH36296 standard; DNA; 13 BP.
XX
AC ABH36296;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 236273 for detecting SNP TSC0008120.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
```

```
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 236273; 29bp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 4 G; 4 T; 0 U; 1 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 46 AACCTCTCTAGTA 58
Db 13 AACCTCTCTAGTA 1
XX
RESULT 143
ABF64310
ID ABF64310 standard; DNA; 13 BP.
XX
AC ABF64310;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 164307 for detecting SNP TSC0041255.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
```

XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 164307; 29bp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 4 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 5 GAGTATTAAGGT 15
Db 1 GAGTATTAAGGT 11
XX
RESULT 144
ABF64315/c
ID ABF64315 standard; DNA; 13 BP.
XX
AC ABF64315;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 164312 for detecting SNP TSC0041255.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 164312; 29bp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 5 C; 1 G; 4 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 5 GAGTATTAAGGT 15
Db 13 GAGTATTAAGGT 3
XX
RESULT 145
ABC44376/c
ID ABC44376 standard; DNA; 13 BP.
XX
AC ABC44376;
XX
XX 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 44393 for detecting SNP TSC0013032.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 44393; 29bp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 AAATTATACCA 83
 |||||
 11 AATTATACCA 1

RESULT 146
 ABH37001
 ID ABH37001 standard; DNA; 13 BP.
 XX
 AC ABH37001;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 236978 for detecting SNP TSC0057815.
 XX
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 236978; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 13 BP; 6 A; 1 C; 0 G; 5 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 1.3e+02;
 Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 27 GTAATCTATCTAA 39
 :|||||
 1 RTAATCTATATTA 13

RESULT 147
 ABH37265
 ID ABH37265 standard; DNA; 13 BP.
 XX

AC ABH37265;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 237242 for detecting SNP TSC0057862.
 XX
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 237242; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 ATCTATCTATAA 40
 |||||
 1 ATCTATCTATAA 11

RESULT 148
 ABF23810/C
 ID ABF23810 standard; DNA; 13 BP.
 XX
 AC ABF23810;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 123807 for detecting SNP TSC0030951.
 XX
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.

XX 18-OCT-2001.
PD XX
XX
PF 06-APR-2001; 2001WO-IB000713.
PR XX
XX 07-APR-2000; 2000DE-01019173.
PA (EPiG-) EPIGENOMICS AG.
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
PS Claim 1; SEQ ID NO 123807; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 1 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 115 CCTACGACTA 125
DB 12 CCTACGACTA 2

RESULT 149
ABH19270/c
ID ABH19270 standard; DNA; 13 BP.
XX
XX ABH19270;
AC
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 219247 for detecting SNP TSC0053308.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPiG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
PS Claim 1; SEQ ID NO 219247; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 AAATTATACCA 83
DB 12 AAATTATACCA 2

RESULT 150
ABF36568/c
ID ABF36568 standard; DNA; 13 BP.
XX
XX ABF36568;
AC
XX
XX 21-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 136565 for detecting SNP TSC0034129.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB000713.
PF
XX
XX 07-APR-2000; 2000DE-01019173.
PR
XX
XX (EPiG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
PS Claim 1; SEQ ID NO 136565; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010

CC -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 ATCTATCTAAA 40
DB 13 ATCTATCTAAA 3

RESULT 151
ABP36569
ID ABP36569 standard; DNA; 13 BP.
XX
AC ABP36569;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 136566 for detecting SNP TSC0034129.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
PT
XX
PS Claim 1, SEQ ID NO 136566; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 ATCTATCTAAA 40

DB 1 ATCTATCTAAA 11

RESULT 152
ABH22530
ID ABH22530 standard; DNA; 13 BP.
XX
AC ABH22530;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 222507 for detecting SNP TSC0054138.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
PT
XX
PS Claim 1, SEQ ID NO 222507; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 AGTATAGGTG 16
DB 1 AGTATAGGTG 11

RESULT 153
ABC4377
ID ABC4377 standard; DNA; 13 BP.
XX
AC ABC4377;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 44394 for detecting SNP TSC0013032.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI, 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 44394; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 73 AATTATACCA 83
DB 3 AATTATACCA 13
RESULT 154
ABC88333/C
ID ABC88333 standard; DNA; 13 BP.
XX ABC88333;
XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 88350 for detecting SNP TSC0022204.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX

PR 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI, 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 88350; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABP00010-ABP9989, ABH00010-ABH9989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 1 C; 0 G; 4 T; 0 U; 1 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 20 TTTACTTGATTC 32
DB 13 TTTATTGTATATY 1
RESULT 155
ABH17450
ID ABH17450 standard; DNA; 13 BP.
XX ABH17450;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 217427 for detecting SNP TSC0052875.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX MPI, 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 217427; 29pp + Sequence Listing; German.
XX

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 0 C; 3 G; 4 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 6 AGTATAGGTGAC 18
|||||
1 AGTATAGGTGAY 13

Db

RESULT 156
ABF69632/c
ID ABF69632 standard; DNA; 13 BP.
XX
AC ABF69632;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 169629 for detecting SNP TSC0042370.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PR 06-APR-2001; 2001MO-IB000713.
XX
PS 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 169629; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 AATCTATCTTAA 39
|||||
11 AATCTATCTTAA 1

Db

RESULT 157
ABH03009
ID ABH03009 standard; DNA; 13 BP.
XX
AC ABH03009;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 202986 for detecting SNP TSC0049850.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PR 06-APR-2001; 2001MO-IB000713.
XX
PS 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 202986; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 3 C; 0 G; 4 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 73 AATTAACACG 85
|||||
1 AATTAACACATC 13

Db

RESULT 158

ABF17818/c
ID ABF17818 standard; DNA; 13 BP.
XX
AC ABF17818;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 117815 for detecting SNP TSC0029452.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI 2001-657177/75.
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 117815; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 0 U; 1 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 16 GACTTACTTGT 28
DB 13 RACTTACTTAR 1
XX
RESULT 159
ABF46247
ID ABF46247 standard; DNA; 13 BP.
XX
AC ABF46247;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 146244 for detecting SNP TSC0036845.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX

OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI 2001-657177/75.
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 146244; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 28 TAATCTATCTA 38
DB 3 TAATCTATCTA 13
XX
RESULT 160
ABC68528/c
ID ABC68528 standard; DNA; 13 BP.
XX
AC ABC68528;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 68545 for detecting SNP TSC0017868.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX

XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 68545; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 73 A A A T T A C C A 83
13 A A A T T A C C A 3
Db
RESULT 161
ABC29301
ID ABC29301 standard; DNA; 13 BP.
XX
AC ABC29301;
XX
DT 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 29318 for detecting SNP TSC0008650.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 29318; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 1 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 114 G C C T A A C G A C T A T 126
1 R C C T A A C C A C T A T 13
Db
RESULT 162
ABF23811
ID ABF23811 standard; DNA; 13 BP.
XX
AC ABF23811;
XX
DT 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 123808 for detecting SNP TSC0030951.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 123808; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB12073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 4 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 115 CCTAACACTA 125
|||||
Db 2 CCTAACACTA 12

RESULT 163
ABH10657/c
ID ABH10657 standard; DNA; 13 BP.
XX
AC ABH10657;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 210634 for detecting SNP TSC0051423.
XX
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 210634; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 6 A; 1 C; 0 G; 5 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 20 TATACCTGATATC 32
|||||
Db 13 TATATTTGTAATY 1

RESULT 164
ABF64314
ID ABF64314 standard; DNA; 13 BP.
XX
AC ABF64314;
XX

DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 164311 for detecting SNP TSC0041255.
DE
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 164311; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 1 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GAGTATTAAGT 15
|||||
Db 1 GAGTATTAAGT 11

RESULT 165
ABC29300/c
ID ABC29300 standard; DNA; 13 BP.
XX
AC ABC29300;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 29317 for detecting SNP TSC0008650.
XX
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1, SEQ ID NO 29317; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 0 C; 5 G; 4 T; 0 U; 1 Other;
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 114 GCCTACGACTAT 126
XX :|||||
XX 13 RCTTACCACTAT 1
XX
RESULT 166
ABC88332
XX ID ABC88332 standard; DNA; 13 BP.
XX
XX ABC88332;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 88349 for detecting SNP TSC0022204.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine

PT methylation status.
XX
XX Claim 1, SEQ ID NO 88349; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 1 G; 7 T; 0 U; 1 Other;
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 20 TACTTGTATC 32
XX :|||||
XX 1 TATATTGTATAT 13
XX
RESULT 167
ABF23105
XX ID ABF23105 standard; DNA; 13 BP.
XX
XX ABF23105;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 123102 for detecting SNP TSC0030780.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1, SEQ ID NO 123102; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI02073
CC represent the oligomers described in the invention. NOTE: The sequence

CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 31 TCTATCTAAAC 41
DB 1 TCTATCTAAAC 11

RESULT 169
ID ABF29060/C
ABF29060 standard; DNA; 13 BP.

AC ABF29060;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 129057 for detecting SNP TSC0032308.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 129057; 29pp + Sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 31 TCTATCTAAAC 41
DB 13 TCTATCTAAAC 3

RESULT 169
ID ABF39159
ABF39159 standard; DNA; 13 BP.

AC ABF39159;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 139156 for detecting SNP TSC0034856.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 139156; 29pp + Sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 ATCTATCTAAA 40
DB 2 ATCTATCTAAA 12

RESULT 170
ID ABH17451/C
ABH17451 standard; DNA; 13 BP.

AC ABH17451;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 217428 for detecting SNP TSC0052875.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIC-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K,
 XX
 XX WPI, 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 CC
 CC Claim 1; SEQ ID NO 217428; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB12073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 13 BP; 4 A; 3 C; 0 G; 5 T; 0 U; 1 Other;
 SO
 Query Match 8.4%; Score 11; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 1.3e+02;
 Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 6 AGTATAAGTCGAC 18
 DB 13 AGTATAAGTTGAY 1
 RESULT 171
 ID ABH19271 standard; DNA; 13 BP.
 XX
 XX ABH19271;
 XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 219248 for detecting SNP TSC0053308.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX

PA (EPIC-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI, 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 CC
 CC Claim 1; SEQ ID NO 219248; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB12073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 U; 0 Other;
 SO
 Query Match 8.4%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 73 AAATTATACCA 83
 DB 2 AAATTATACCA 12
 RESULT 172
 ID ABF69633 standard; DNA; 13 BP.
 XX
 XX ABF69633;
 XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 169630 for detecting SNP TSC0042370.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIC-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI, 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 CC
 CC Claim 1; SEQ ID NO 169630; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
CC
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 29 AATCTATCTTAA 39
Db 3 AATCTATCTTAA 13
RESULT 173
ABF69721
ID ABF69721 standard; DNA; 13 BP.
AC ABF69721;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 169718 for detecting SNP TSC0042390.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K,
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 169718; 29bp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 70 GCTAATTTATACC 82
Db 1 RCTAATTTCTACC 13
RESULT 174
ABF57604/c
ID ABF57604 standard; DNA; 13 BP.
XX
XX ABF57604;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 157601 for detecting SNP TSC0039698.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K,
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 157601; 29bp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 73 AATTTATACCA 83
Db 13 AATTTATACCA 3
RESULT 175
ABH37000/c
ID ABH37000 standard; DNA; 13 BP.

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XX ABH37000;
AC
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 236977 for detecting SNP TSC0057815.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 236977; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 0 C; 1 G; 6 T; 0 U; 1 Other;
SQ
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX 27 GTAATCTATCTAA 39
XX :|||||
XX 13 RTAATCTATATA 1
XX
XX RESULT 176
XX ABF05685
XX ID ABF05685 standard; DNA; 13 BP.
XX
XX ABF05685;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 105682 for detecting SNP TSC0026488.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX

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PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 105682; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 U; 0 Other;
SQ
XX
XX Query Match 8.4%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 1.3e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 72 TAAATTATACC 82
XX :|||||
XX 2 TAAATTATACC 12
XX
XX RESULT 177
XX ABC87293/C
XX ID ABC87293 standard; DNA; 13 BP.
XX
XX ABC87293;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 87310 for detecting SNP TSC0021951.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX

```

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1, SEQ ID NO 87310, 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP, 3 A, 5 C, 0 G, 5 T, 0 U, 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 5 GAGTATAGGT 15
Db |||||
11 GAGTATAGGT 1
XX
RESULT 178
ID ABF16584 standard; DNA; 13 BP.
AC ABF16584;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 116581 for detecting SNP TSC0029177.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX MPI, 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1, SEQ ID NO 116581, 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP, 4 A, 0 C, 6 G, 3 T, 0 U, 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 5 GAGTATAGGT 15
Db |||||
3 GAGTATAGGT 13
XX
RESULT 179
ID ABF29061 standard; DNA; 13 BP.
AC ABF29061;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 129058 for detecting SNP TSC0032308.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX MPI, 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1, SEQ ID NO 129058, 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP, 4 A, 3 C, 0 G, 6 T, 0 U, 0 Other;
XX
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 31 TCTATCTAAC 41
|||||
DB 1 TCTATCTAAC 11

RESULT 180
ABF31690/c
ID ABF31690 standard; DNA; 13 BP.
XX
AC ABF31690;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 131687 for detecting SNP TSC0032867.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 131687; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 AATTATACCA 83
|||||
DB 13 AATTATACCA 3

RESULT 181
ABF69720/c
ID ABF69720 standard; DNA; 13 BP.
XX
AC ABF69720;
XX
DT 22-FEB-2002 (first entry)
XX

DE Oligonucleotide SEQ ID NO 169717 for detecting SNP TSC0042390.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 169717; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 0 C; 4 G; 4 T; 0 U; 1 Other;

Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 70 GCTAATTATACC 82
|||||
DB 13 GCTAATTATACC 1

RESULT 182
ABH36297
ID ABH36297 standard; DNA; 13 BP.
XX
AC ABH36297;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 236274 for detecting SNP TSC0008120.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.

```

XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
PI MPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 236274; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 1 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred.No. 1.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 46 AACCTCTTAGTA 58
DB 1 RACCTCTTAGTA 13
RESULT 183
ABF64311/C
ID ABF64311 standard; DNA; 13 BP.
XX
AC ABF64311;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 164308 for detecting SNP TSC0041255.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
PD 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-1B000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX MPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX

```

```

PS Claim 1; SEQ ID NO 164308; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX
SQ Sequence 13 BP; 4 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
Query Match 8.4%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred.No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GAGTATAGGT 15
DB 13 GAGTATAGGT 3
Search completed: December 9, 2004, 17:22:30
Job time : 1 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2004, 17:25:16, Search time 0.001 Seconds
(Without alignments)
127.594 Million cell updates/sec

Title: us-09-661-658-2

Perfect score: 131
Sequence: 1 gccctgaagataagtgactt.....atgcctaagactaccctt 131

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 27 seqs, 487 residues

Total number of hits satisfying chosen parameters: 54

Minimum DB seq length: 8
Maximum DB seq length: 100

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 27 summaries

Database: rndb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	31.8	24.3	40 1 US-09-857-063-1	Sequence 1, Appl1
2	31.8	24.3	42 1 US-08-443-957-29	Sequence 29, Appl1
3	30.4	23.2	38 1 US-08-443-957-37	Sequence 37, Appl1
4	30.4	23.2	40 1 US-08-443-957-6	Sequence 6, Appl1
5	12.4	9.5	15 1 US-08-319-492B-449	Sequence 449, Appl1
6	12	9.2	12 1 US-09-164-249B-16	Sequence 16, Appl1
7	11.8	9.0	15 1 US-08-182-968A-491	Sequence 491, Appl1
8	11.8	9.0	15 1 US-08-774-305A-491	Sequence 491, Appl1
9	11.8	9.0	15 1 US-09-064-156A-491	Sequence 491, Appl1
10	11.8	9.0	15 1 US-09-081-646-677	Sequence 677, Appl1
11	11.4	8.7	15 1 US-08-291-932A-188	Sequence 188, Appl1
12	11.4	8.7	15 1 US-08-334-847-90	Sequence 90, Appl1
13	11.4	8.7	15 1 US-08-334-847-91	Sequence 91, Appl1
14	11.4	8.7	15 1 US-08-585-684B-793	Sequence 793, Appl1
15	11.4	8.7	15 1 US-08-585-684B-794	Sequence 794, Appl1
16	11.4	8.7	15 1 US-09-038-073-793	Sequence 793, Appl1
17	11.4	8.7	15 1 US-09-038-073-794	Sequence 794, Appl1
18	11.4	8.7	15 1 US-09-081-646-662	Sequence 662, Appl1
19	10.8	8.2	14 1 US-08-453-224-7	Sequence 7, Appl1
20	10.8	8.2	14 1 US-08-379-079-7	Sequence 7, Appl1
21	10.8	8.2	14 1 US-08-802-184-7	Sequence 7, Appl1
22	10.8	8.2	14 1 US-09-302-390-7	Sequence 7, Appl1
23	10.8	8.2	14 1 PCT-US94-05181-7	Sequence 7, Appl1
24	10.4	7.9	13 1 5171840-9	Patent No. 5171840
25	9.8	7.5	11 1 US-08-520-194-6	Sequence 6, Appl1
26	9.8	7.5	13 1 US-08-259-148A-54	Sequence 54, Appl1
27	9.8	7.5	13 1 US-07-876-941A-70	Sequence 70, Appl1

ALIGNMENTS

RESULT 1

US-09-857-063-1
; Sequence 1, Application US/09857063
; Patent No. 6579681
; GENERAL INFORMATION:
; APPLICANT: Huls, Christoph
; APPLICANT: Bauer, Bettina
; APPLICANT: Simandi, Claus
; APPLICANT: Luhmann, Reinhard
; APPLICANT: Achsel, Tilman
; APPLICANT: Vornlocher, Hans-Peter
; TITLE OF INVENTION: Test System for Detecting a Splicing Reaction and Use Thereof
; FILE REFERENCE: 1994c.01.us (8602*34)
; CURRENT APPLICATION NUMBER: US/09/857,063
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: PCT/EP00/01595
; PRIOR FILING DATE: 2000-02-25
; PRIOR APPLICATION NUMBER: DE 199 09 156.0
; PRIOR FILING DATE: 1999-03-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 40
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Aptamer
US-09-857-063-1

Query Match 24.3%; Score 31.8; DB 1; Length 40;
Best Local Similarity 68.6%; Pred. No. 0.3;
Matches 24; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 73 AAATTTACACAGCATCTTGTATGCGCTTGCGCAG 107
DB 1 AAGUGAACCACAGCAVCCUGAUGCCCUUGGCAG 35

RESULT 2
US-08-443-957-29
; Sequence 29, Application US/08443957
; Patent No. 5580737
; GENERAL INFORMATION:
; APPLICANT: Barry Polisky
; APPLICANT: Robert Jenison
; APPLICANT: Larry Gold
; TITLE OF INVENTION: HIGH-AFFINITY NUCLEIC ACID LIGANDS THAT
; TITLE OF INVENTION: DISCRIMINATE BETWEEN THEOPHYLLINE AND
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Swanson & Bratschun, L.L.C.
; STREET: 8400 E. Prentice Avenue, Suite 200
; CITY: Englewood
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 800 kb storage
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,957
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/134,028
; FILING DATE: 10 OCTOBER 1993
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990

ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3433
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 42 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-443-957-29

Query Match 24.3%; Score 31.8; DB 1; Length 42;
Best Local Similarity 68.8%; Pred. No. 0.31;
Matches 24; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 73 AAATATACGACATGCTTGATGCCCTTGCGAG 107
1 AAGUGAACCGACGACUUGCUUGAGCCUUGCGAG 35

Db

RESULT 3
US-08-443-957-37
Sequence 37, Application US/08443957
Patent No. 5580737
GENERAL INFORMATION:
APPLICANT: Barry Polisky
APPLICANT: Robert Jenison
TITLE OF INVENTION: HIGH-AFFINITY NUCLEIC ACID LIGANDS THAT
TITLE OF INVENTION: DISCRIMINATE BETWEEN THIOPHYLLINE AND
TITLE OF INVENTION: CAFFEINE
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 800 Kb storage
COMPUTER: IBM
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/443,957
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/134,028
FILING DATE: 10 OCTOBER 1993
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3433
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-443-957-37

Query Match 23.2%; Score 30.4; DB 1; Length 38;
Best Local Similarity 68.8%; Pred. No. 0.4;
Matches 22; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 76 TTATACGACATGCTTGATGCCCTTGCGAG 107
3 UGAUACCGACGACUUGCUUGAGCCUUGCGAG 34

Db

RESULT 4
US-08-443-957-6
Sequence 6, Application US/08443957
Patent No. 5580737
GENERAL INFORMATION:
APPLICANT: Barry Polisky
APPLICANT: Robert Jenison
TITLE OF INVENTION: HIGH-AFFINITY NUCLEIC ACID LIGANDS THAT
TITLE OF INVENTION: DISCRIMINATE BETWEEN THIOPHYLLINE AND
TITLE OF INVENTION: CAFFEINE
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 800 Kb storage
COMPUTER: IBM
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/443,957
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/134,028
FILING DATE: 10 OCTOBER 1993
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3433
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-443-957-6

Query Match 23.2%; Score 30.4; DB 1; Length 40;
Best Local Similarity 68.8%; Pred. No. 0.42;
Matches 22; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 76 TTATACGACATGCTTGATGCCCTTGCGAG 107
2 UGAUACCGACGACUUGCUUGAGCCUUGCGAG 33

Db

RESULT 5
US-08-319-492B-449/c

Sequence 449, Application US/08319492B
Patent No. 5616488
GENERAL INFORMATION:
APPLICANT: Sullivan, Sean M.
APPLICANT: Draper, Kenneth G.
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES
TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS
NUMBER OF SEQUENCES: 751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/319,492B
FILING DATE: October 7, 1994
PRIOR APPLICATION DATA: Including application
Prior Application Data: described below:
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/276
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ. ID NO: 449:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-319-492B-449

Query Match 9.5%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 13;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 31 TCTATCTAAACGGG 44
DB 15 TCTATCTAAACGGG 2

RESULT 6
US-09-164-249B-16/C
Sequence 16, Application US/09164249B
Patent No. 6322971
GENERAL INFORMATION:
APPLICANT: Chetverin, Alexander B.
APPLICANT: Kramet, Fred Russel
TITLE OF INVENTION: NOVEL OLIGONUCLEOTIDE ARRAYS AND THEIR USE FOR SORTING,
FILE REFERENCE: 07763-004003
CURRENT APPLICATION NUMBER: US/09/164,249B
CURRENT FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: US 08/473,010

PRIOR FILING DATE: 1995-06-07
PRIOR APPLICATION NUMBER: US 08/247,530
PRIOR FILING DATE: 1994-05-23
PRIOR APPLICATION NUMBER: US 07/838,607
PRIOR FILING DATE: 1992-02-19
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16
LENGTH: 12
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetically derived DNA
US-09-164-249B-16

Query Match 9.2%; Score 12; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 76 TTATACGACAT 87
DB 12 TTATACGACAT 1

RESULT 7
US-08-182-968A-491/C
Sequence 491, Application US/08182968A
Patent No. 5610054
GENERAL INFORMATION:
APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
NUMBER OF SEQUENCES: 497
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182,968A
FILING DATE: 13-JANUARY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/882,888
FILING DATE: 14-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 205/277
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 491:
SEQUENCE CHARACTERISTICS:
LENGTH: 15
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-182-968A-491

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 15;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGATTAATGCCTA 118
Db 15 GCAGGTAGATGCCTA 1

RESULT 8

US-08-774-306A-491/C
; Sequence 491, Application US/08774306A
; Patent No. 5869253
; GENERAL INFORMATION:
; APPLICANT: Diaper, Kenneth G.
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: INHIBITING HEPATITIS C
; TITLE OF INVENTION: VIRUS REPLICATION
; NUMBER OF SEQUENCES: 497
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/774,306A
; FILING DATE: December 26, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/182,968
; FILING DATE: January 13, 1994
; APPLICATION NUMBER: 07/882,888
; FILING DATE: May 14, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 223/227
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELE: 67-3510
; INFORMATION FOR SEQ ID NO: 491:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-774-306A-491

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 15;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGTAAATGCCTA 118
Db 15 GCAGGTAGATGCCTA 1

RESULT 9

US-09-064-156A-491/C
; Sequence 491, Application US/09064156A
; Patent No. 6132966
; GENERAL INFORMATION:
; APPLICANT: Diaper, Kenneth G.
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: INHIBITING HEPATITIS C
; TITLE OF INVENTION: VIRUS REPLICATION
; NUMBER OF SEQUENCES: 498

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/064,156A
; FILING DATE: April 21, 1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/774,306
; FILING DATE: December 26, 1996
; APPLICATION NUMBER: 08/182,968
; FILING DATE: January 13, 1994
; APPLICATION NUMBER: 07/882,888
; FILING DATE: May 14, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/083
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELE: 67-3510
; INFORMATION FOR SEQ ID NO: 491:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-064-156A-491

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 15;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGTAAATGCCTA 118
Db 15 GCAGGTAGATGCCTA 1

RESULT 10

US-09-081-646-677
; Sequence 677, Application US/09081646
; Patent No. 6333152
; GENERAL INFORMATION:
; APPLICANT: Kinzler, Kenneth
; APPLICANT: Vogelstein, Bert
; APPLICANT: Zhang, Lin
; APPLICANT: Zhou, Wei
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152na1 and
; FILE REFERENCE: 01107.74664
; CURRENT APPLICATION NUMBER: US/09/081,646
; CURRENT FILING DATE: 1998-05-20
; EARLIER APPLICATION NUMBER: 60/047,352
; EARLIER FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 871
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 677
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-081-646-677

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 15;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 85 CATGCTCTGATGCC 99
DB 1 CATGCTCTGATGCC 15

RESULT 11

US-08-291-932A-188/c
; Sequence 188, Application US/08291932A
; Patent No. 5658780

GENERAL INFORMATION:

APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth G.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: NP-KB
NUMBER OF SEQUENCES: 830
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/291,932A
FILING DATE: August 15, 1994

CLASSIFICATION: 514

PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:

Two

APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 188:

SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-291-932A-188

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 48 CCTCTCTAGAGA 60
DB 14 CCTCTCTAGAGA 2

RESULT 12

US-08-334-847-90/c
; Sequence 90, Application US/08334847
; Patent No. 5693532

GENERAL INFORMATION:

APPLICANT: McSwiggen, James
APPLICANT: Draper, Kenneth
APPLICANT: Pavco, Pam
APPLICANT: Woolf, Tod
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING RESPIRATORY
TITLE OF INVENTION: SYNCYTIAL VIRUS
NUMBER OF SEQUENCES: 909
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847
FILING DATE: No. 5693532ember 4, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 90:

SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-334-847-90

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 52 TCTAGTAGCAAT 64
DB 15 TCTAGTAGCAAT 3

RESULT 13

US-08-334-847-91/c
; Sequence 91, Application US/08334847
; Patent No. 5693532

GENERAL INFORMATION:

APPLICANT: McSwiggen, James
APPLICANT: Draper, Kenneth
APPLICANT: Pavco, Pam
APPLICANT: Woolf, Tod
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING RESPIRATORY
TITLE OF INVENTION: SYNCYTIAL VIRUS
NUMBER OF SEQUENCES: 909
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street

STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847
FILING DATE: No. 5693532ember 4, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-334-847-91

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 52 TCTAGTACCAAT 64
DB 13 TCTAGTACCAAT 1

RESULT 14
US-08-585-684B-793/c
Sequence 793, Application US/08585684B
Patent No. 5877021
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951

FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 793:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-793

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 87 TCGTCTTGATGCC 99
DB 15 TCGTATGATGCC 3

RESULT 15
US-08-585-684B-794/c
Sequence 794, Application US/08585684B
Patent No. 5877021
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 794:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-794

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 87 TCGTCTTGATGCC 99
Db 15 TCGTATTGATGCC 3

RESULT 16
US-09-038-073-793/c
; Sequence 793, Application US/09038073
; Patent No. 6194150
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/038,073
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/585,684
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 793:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-038-073-793

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 87 TCGTCTTGATGCC 99
Db 15 TCGTATTGATGCC 3

RESULT 17
US-09-038-073-794/c
; Sequence 794, Application US/09038073
; Patent No. 6194150
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.

APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/585,684
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 794:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-038-073-794

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 17;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 87 TCGTCTTGATGCC 99
Db 15 TCGTATTGATGCC 3

RESULT 18
US-09-081-646-662/c
; Sequence 662, Application US/09081646
; Patent No. 6333152
; GENERAL INFORMATION:
; APPLICANT: Kinzler, Kenneth
; APPLICANT: Vogelstein, Bert
; APPLICANT: Zhang, Lin
; APPLICANT: Zhou, Wei
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
; TITLE OF INVENTION: Cancer Cells
; FILE REFERENCE: 01107.74664
; CURRENT APPLICATION NUMBER: US/09/081,646
; EARLIER FILING DATE: 1998-05-20
; EARLIER APPLICATION NUMBER: 60/047,352
; EARLIER FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 871
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 662
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-081-646-662

Query Match 8.7%; Score 11.4; DB 1; Length 15;

Best Local Similarity 92.3%; Pred. No. 17;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 58 AGACATCCCGTG 70

DB 13 AGACATCCCATG 1

RESULT 19

US-08-453-224-7

; Sequence 7, Application US/08453224

; Patent No. 5627274

; GENERAL INFORMATION:

; APPLICANT: Kole, Ryszard

; TITLE OF INVENTION: Antisense Oligonucleotides Which Combat

; TITLE OF INVENTION: Aberrant Splicing and Methods of Using the Same

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Kenneth D. Sibley, Bell, Seltzer, Park and

; ADDRESSER: Gibson

; STREET: Post Office Drawer 34009

; CITY: Charlotte

; STATE: No. 5627274ch Carolina

; COUNTRY: U.S.A.

; ZIP: 28234

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/453,224

; FILING DATE: 30-MAY-1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/379,079

; FILING DATE: 26-JAN-1995

; APPLICATION NUMBER: US/08/062,471

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Sibley, Kenneth D.

; REGISTRATION NUMBER: 31,665

; REFERENCE/DOCKET NUMBER: 5470-63

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 919-881-3140

; TELEFAX: 919-881-3175

; TELEX: 575102

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 14 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: RNA (genomic)

; ANTI-SENSE: YES

; US-08-453-224-7

Query Match 8.2%; Score 10.8; DB 1; Length 14;

Best Local Similarity 71.4%; Pred. No. 18;

Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 115 CCTACGACTATCC 128

DB 1 CCCAAGACUAVCC 14

RESULT 20

US-08-379-079-7

; Sequence 7, Application US/08379079

; Patent No. 5665593

; GENERAL INFORMATION:

; APPLICANT: Kole, Ryszard

; TITLE OF INVENTION: Antisense Oligonucleotides Which Combat

; TITLE OF INVENTION: Aberrant Splicing and Methods of Using the Same

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Kenneth D. Sibley, Bell, Seltzer, Park and

; ADDRESSER: Gibson

; STREET: Post Office Drawer 34009

; CITY: Charlotte

; STATE: No. 5665593ch Carolina

; COUNTRY: U.S.A.

; ZIP: 28234

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/379,079

; FILING DATE:

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/062,471

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Sibley, Kenneth D.

; REGISTRATION NUMBER: 31,665

; REFERENCE/DOCKET NUMBER: 5470-63

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 919-881-3140

; TELEFAX: 919-881-3175

; TELEX: 575102

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 14 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: RNA (genomic)

; ANTI-SENSE: YES

; US-08-379-079-7

Query Match 8.2%; Score 10.8; DB 1; Length 14;

Best Local Similarity 71.4%; Pred. No. 18;

Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 115 CCTACGACTATCC 128

DB 1 CCCAAGACUAVCC 14

RESULT 21

US-08-802-384-7

; Sequence 7, Application US/08802384

; Patent No. 5916808

; GENERAL INFORMATION:

; APPLICANT: Kole, Ryszard

; TITLE OF INVENTION: Antisense Oligonucleotides Which Combat

; TITLE OF INVENTION: Aberrant Splicing and Methods of Using the Same

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Kenneth D. Sibley, Bell, Seltzer, Park and

; ADDRESSER: Gibson

; STREET: Post Office Drawer 34009

; CITY: Charlotte

; STATE: No. 5916808ch Carolina

; COUNTRY: U.S.A.

; ZIP: 28234

; COMPUTER READABLE FORM:

MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/06/802,384
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/379,079
FILING DATE:
APPLICATION NUMBER: US/08/062,471
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5470-63
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-881-3140
TELEFAX: 919-881-3175
TELEX: 575102
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
ANTI-SENSE: YES
US-06-802-384-7

Query Match 8.2%; Score 10.8; DB 1; Length 14;
Best Local Similarity 71.4%; Pred. No. 18;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 115 CCTACGACTATCC 128
DB 1 CCCAAGACUACC 14

RESULT 22
US-09-302-390-7
Sequence 7, Application US/09302390
Patent No. 5976879
GENERAL INFORMATION:
APPLICANT: Kole, Ryszard
APPLICANT: Dominski, Zbigniew T.
TITLE OF INVENTION: Antisense Oligonucleotides Which Combat
TITLE OF INVENTION: Aberrant Splicing and Methods of Using the Same
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Kenneth D. Sibley, Bell, Seltzer, Park and
ADDRESSER: Gibson
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: No. 5976879ch Carolina
COUNTRY: U.S.A.
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/302,390
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/379,079
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665

REFERENCE/DOCKET NUMBER: 5470-63
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-881-3140
TELEFAX: 919-881-3175
TELEX: 575102
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
ANTI-SENSE: YES
US-09-302-390-7

Query Match 8.2%; Score 10.8; DB 1; Length 14;
Best Local Similarity 71.4%; Pred. No. 18;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 115 CCTACGACTATCC 128
DB 1 CCCAAGACUACC 14

RESULT 23
PCT-US94-05181-7
Sequence 7, Application PC/TUS9405181
GENERAL INFORMATION:
APPLICANT: Kole, Ryszard
APPLICANT: Dominski, Zbigniew T.
TITLE OF INVENTION: Antisense Oligonucleotides Which
TITLE OF INVENTION: Combat Aberrant Splicing and Methods of Using the Same
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Kenneth D. Sibley, Bell, Seltzer, Park
ADDRESSER: and Gibson
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: North Carolina
COUNTRY: U.S.A.
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/05181
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5470-63
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-881-3140
TELEFAX: 919-881-3175
TELEX: 575102
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
ANTI-SENSE: YES
PCT-US94-05181-7

Query Match 8.2%; Score 10.8; DB 1; Length 14;
Best Local Similarity 71.4%; Pred. No. 18;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 115 CCTACGACTATCC 128

Db 1 CCGAAGACUACC 14

RESULT 24
5171840-9/c
; Patent No. 5171840
; APPLICANT: KISHIMOTO, TADAMITSU
; TITLE OF INVENTION: RECEPTOR PROTEIN FOR HUMAN B CELL
; STIMULATORY FACTOR-2
; NUMBER OF SEQUENCES: 11
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/298,694
; FILING DATE: 19-JAN-1989
; SEQ ID NO:9:
; LENGTH: 13
5171840-9

Query Match 7.9%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 18;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 45 GAACCTCTCTAG 56
Db 12 GAATCTCTAG 1

RESULT 25
US-08-520-194-6
; Sequence 6, Application US/08520194
; Patent No. 5681705
; GENERAL INFORMATION:
; APPLICANT: Schram, James L.
; APPLICANT: Nadeau, James G.
; TITLE OF INVENTION: AMPLIFICATION AND DETECTION OF
; TITLE OF INVENTION: MYCOBACTERIUM AVIUM COMPLEX SPECIES
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; ADDRESSEE: Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/520,194
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R. 32,135
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3274
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-520-194-6

Query Match 7.6%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 59 GACATCCCG 68

Db 1 GACATCCCG 10

RESULT 26
US-08-259-148A-54
; Sequence 54, Application US/08259148A
; Patent No. 5741490
; GENERAL INFORMATION:
; APPLICANT: Reyes, Gregory R.
; APPLICANT: Bradley, Daniel W.
; APPLICANT: Twu, Ji-Shin
; APPLICANT: Purdy, Michael A.
; APPLICANT: Tam, Albert W.
; APPLICANT: Krawczynski, Krzysztof Z.
; APPLICANT: Yarbough, Patrice D.
; TITLE OF INVENTION: Hepatitis B Virus Vaccine and Method
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/259,148A
; FILING DATE: 13-JUN-1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 822,335
; FILING DATE: 17-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 505,888
; FILING DATE: 05-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 420,921
; FILING DATE: 13-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 367,486
; FILING DATE: 16-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 336,672
; FILING DATE: 11-APR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 208,997
; FILING DATE: 17-JUN-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Sholtz, Charles K.
; REGISTRATION NUMBER: 38,615
; REFERENCE/DOCKET NUMBER: 4600-0093.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: DNA sequence, Fig. 7
US-08-259-148A-54

Query Match 7.5%; Score 9.8; DB 1; Length 13;

Best Local Similarity 84.6%; Pred.No. 21;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 18 CTTACTGTGTA 30
Db 1 CTTATATTATAA 13

RESULT 27

US-07-876-941A-70
Sequence 70, Application US/07876941A
Patent No. 5885768

GENERAL INFORMATION:

APPLICANT: Reyes, Gregory R.
APPLICANT: Bradley, Daniel W.

APPLICANT: Tam, Albert W.

TITLE OF INVENTION: Hepatitis E Virus Peptide Antigen and

TITLE OF INVENTION: Antibodies

NUMBER OF SEQUENCES: 76

CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Releasee #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/876,941A
FILING DATE: 01-MAY-1992

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 822,335
FILING DATE: 17-JAN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 505,888
FILING DATE: 05-APRIL-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 420,921
FILING DATE: 13-OCTOBER-1989

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 367,486
FILING DATE: 16-JUNE-1989

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 336,672
FILING DATE: 11-APRIL-1989

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 208,997
FILING DATE: 17-JUNE-1988

ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615

REFERENCE/DOCKET NUMBER: 4600-0093.33

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 70:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 base pairs

TYPE: nucleic acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: DNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: DNA sequence, Fig. 7

Query Match 7.5%; Score 9.8; DB 1; Length 13;

Best Local Similarity 84.6%; Pred.No. 21;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 18 CTTACTGTGTA 30
Db 1 CTTATATTATAA 13

Search completed: December 9, 2004, 17:25:17
Job time : 1 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2004, 17:28:44 ; Search time 0.001 Seconds
(without alignments)
94.582 Million cell updates/sec

Title: us-09-661-658-2

Perfect score: 131
Sequence: 1 gcctgagctataagtgact.....atgcctaagactatccct 131

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapect 0.5

Searched: 13 seqs, 361 residues

Total number of hits satisfying chosen parameters: 26

Minimum DB seq length: 8
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 14 summaries

Database: rnpbdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	76	58.0	94	1	US-09-883-119A-19
2	30.8	23.5	38	1	US-09-231-235-61
3	30.8	23.5	38	1	US-09-797-518A-61
4	30.8	23.5	38	1	US-09-872-696A-61
5	22.4	17.1	24	1	US-09-883-119A-17
6	16.2	12.4	21	1	US-10-786-720-10954
7	16.2	12.4	21	1	US-10-786-720-10956
8	13.6	10.4	94	1	US-09-883-119A-19
9	12	9.2	12	1	US-10-331-780-16
10	11.8	9.0	15	1	US-09-504-231A-513
11	11.8	9.0	15	1	US-09-274-553D-513
12	11.4	8.7	15	1	US-10-056-414-188
13	11.4	8.7	15	1	US-10-339-674-1630
14	11.4	8.7	15	1	US-10-440-850-368

ALIGNMENTS

RESULT 1
US-09-883-119A-19

; Sequence 19, Application US/09883119A
; Publication No. US20030104520A1
; GENERAL INFORMATION:
; APPLICANT: The University of Texas System Board of Regents
; TITLE OF INVENTION: Regulatable, Catalytically Active Nucleic Acids
; FILE REFERENCE: 119927-1050
; CURRENT APPLICATION NUMBER: US/09/883, 119A
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: 60/212, 097
; PRIOR FILING DATE: 2000-06-15

Query Match 58.0%; Score 76; DB 1; Length 94;

Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTGAGTAAAGTGACTTATCTTATCTTAACGGGAACCTCTAGTAGA 60

DB 1 GCCTGAGTAAAGTGACTTATCTTATCTTAACGGGAACCTCTAGTAGA 60

QY 61 CAATCCCGTCTTAAT 76

DB 61 CAATCCCGTCTTAAT 76

RESULT 2

US-09-231-235-61
; Sequence 61, Application US/09231235
; Patent No. US2002004805A1
; GENERAL INFORMATION:
; APPLICANT: Johnston, Julie C.
; APPLICANT: Sauter, Sybille L.
; APPLICANT: Hau, David
; APPLICANT: Sheridan, Philip Lee
; APPLICANT: Hardy, Steven
; APPLICANT: Dubensky, Thomas
; APPLICANT: Yee, Jiling-Kuan

Query Match 23.5%; Score 30.8; DB 1; Length 36;
Best Local Similarity 67.6%; Pred. No. 2.9;
Matches 23; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 74 AATTATACGAGCATGCTTGTGATGCCCTTGCGAG 107

DB 1 AGUGAUAACGAGCAGUCGUCUGAUGCCCUUGCGAG 34

RESULT 3

US-09-797-518A-61
; Sequence 61, Application US/09797518A
; Patent No. US20020068354A1
; GENERAL INFORMATION:
; APPLICANT: Johnston, Julie C.
; APPLICANT: Sauter, Sybille L.
; APPLICANT: Hau, David
; APPLICANT: Sheridan, Philip Lee
; APPLICANT: Hardy, Steven
; APPLICANT: Dubensky, Thomas
; APPLICANT: Yee, Jiling-Kuan

Query Match 23.5%; Score 30.8; DB 1; Length 38;
Best Local Similarity 67.6%; Pred. No. 2.9;
Matches 23; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 74 AATTATACGAGCATGCTTGTGATGCCCTTGCGAG 107

DB 1 AGUGAUAACGAGCAGUCGUCUGAUGCCCUUGCGAG 34

RESULT 4

US-09-872-696A-61
; Sequence 61, Application US/09872696A
; Publication No. US20030104611A1
; GENERAL INFORMATION:
; APPLICANT: Johnston, Julie C.
; APPLICANT: Sauter, Sybille L.
; APPLICANT: Hau, David
; APPLICANT: Sheridan, Philip Lee
; APPLICANT: Hardy, Steven
; APPLICANT: Dubensky, Thomas
; APPLICANT: Yee, Jiling-Kuan

Query Match 23.5%; Score 30.8; DB 1; Length 36;
Best Local Similarity 67.6%; Pred. No. 2.9;
Matches 23; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

APPLICANT: Macejek, Dennis
 TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
 TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION

Query Match 9.0%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 16;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGATTAATGCTTA 118
 DB 15 GCAGTAGATGCTTA 1

QY 87 TCGTCTTGATGCC 99
 DB 15 TCGTATTGATGCC 3
 Search completed: December 9, 2004, 17:28:45
 Job time: 1 secs

RESULT 12
 US-10-056-414-188/C
 Sequence 188, Application US/10056414
 Publication No. US20030003469A1
 GENERAL INFORMATION:
 APPLICANT: Stinchcomb, Dan T.
 Draper, Kenneth G.
 McSwigen, James
 TITLE OF INVENTION: RIBOZYME TREATMENT OF
 DISEASES OR CONDITIONS
 RELATED TO LEVELS OF
 NF-KB

Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 16;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 48 CCTCTCTAGTAGA 60
 DB 14 CCTCTCTAGAGA 2

RESULT 13
 US-10-339-674-1630/C
 Sequence 1630, Application US/10339674
 Publication No. US20030204318A1
 GENERAL INFORMATION:
 APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
 TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
 FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
 CURRENT APPLICATION NUMBER: US/10/339,674
 CURRENT FILING DATE: 2003-06-06
 NUMBER OF SEQ ID NOS: 3537
 SOFTWARE: Proprietary

Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 16;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 107 GATTAATGCTTA 119
 DB 14 GATTAATGCTGA 2

RESULT 14
 US-10-440-850-368/C
 Sequence 368, Application US/10440850
 Publication No. US20030207837A1
 GENERAL INFORMATION:
 APPLICANT: Ribozyne Pharmaceuticals, Inc.
 APPLICANT: Stinchcomb, Dan
 APPLICANT: Jarvis, Thale
 APPLICANT: McSwigen, Jim
 TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance and Revers
 TITLE OF INVENTION: Immune Responses
 FILE REFERENCE: 250/130 (MBH00-900-A)

Query Match 8.7%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 16;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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OM nucleic - nucleic search, using sw model

Run on: December 9, 2004, 17:19:01 ; Search time 1 Seconds

(without alignments)
0.187 Million cell updates/sec

Title: us-09-661-658-2

Perfect score: 131
Sequence: 1 gccctagcactaacgagcactc.....atgcctaacgactaccctc 131

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 35 seqs, 712 residues

Total number of hits satisfying chosen parameters: 70

Minimum DB seq length: 8
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 35 summaries

Database : rgedb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	31.8	24.3	40 1	ACCESSION:BD248913
2	31.8	24.3	40 1	ACCESSION:AR343402
3	31.8	24.3	40 1	ACCESSION:AX034867
4	31.8	24.3	42 1	ACCESSION:I30279
5	30.4	23.2	38 1	ACCESSION:I30287
6	30.4	23.2	40 1	ACCESSION:I30256
7	22.4	17.1	24 1	ACCESSION:AX427118
8	15.8	12.1	20 1	ACCESSION:AX590751
9	15.2	11.6	20 1	ACCESSION:I77475
10	13.8	10.5	18 1	ACCESSION:AX705641
11	13.8	10.5	18 1	ACCESSION:AX705643
12	13.8	10.5	18 1	ACCESSION:AX822833
13	13.8	10.5	18 1	ACCESSION:AX826473
14	12.8	9.8	16 1	ACCESSION:AX255681
15	12.8	9.8	17 1	ACCESSION:AX674315
16	12.8	9.8	17 1	ACCESSION:AX729684
17	12.8	9.8	17 1	ACCESSION:AX729684
18	12.8	9.8	17 1	ACCESSION:AX736832
19	12.4	9.5	17 1	ACCESSION:AX758557
20	12.4	9.5	15 1	ACCESSION:I39411
21	12.4	9.5	15 1	ACCESSION:AX635705
22	11.8	9.0	12 1	ACCESSION:AR261549
23	11.8	9.0	15 1	ACCESSION:AR033725
24	11.8	9.0	15 1	ACCESSION:AR113547
25	11.8	9.0	15 1	ACCESSION:BD207458
26	11.8	9.0	15 1	ACCESSION:AR157954
27	11.4	8.7	15 1	ACCESSION:AR180609
28	11.4	8.7	15 1	ACCESSION:AR132368
29	11.4	8.7	15 1	ACCESSION:AR132369
30	11.4	8.7	15 1	ACCESSION:AR132369
31	11.4	8.7	15 1	ACCESSION:AR132369
32	11.4	8.7	15 1	ACCESSION:AR132369
33	11.4	8.7	15 1	ACCESSION:AR132369

c 34 11.4 8.7 15 1 AX638102
c 35 11.4 8.7 15 1 AX638103
ACCESSION:AX638102
ACCESSION:AX638103

ALIGNMENTS

RESULT 1
BD248913
LOCUS BD248913 40 bp RNA linear PAT 17-JUL-2003
DEFINITION Test system for detecting a splicing reaction and use thereof.
ACCESSION BD248913
VERSION BD248913.1 GI:33056883
KEYWORDS JP 2002537822-A/1.
SOURCE JP 2002537822-A/1.
ORGANISM synthetic construct
REFERENCE Hulse, C., Bauer, B., Simandi, C., Luehrmann, R., Achsel, T. and
Vornlocher, H.-P.
1 (bases 1 to 40)
ARTIFICIAL SEQUENCE
COMMENT Test system for detecting a splicing reaction and use thereof
JOURNAL Patent: JP 2002537822-A 1 12-NOV-2002;
ADVENTIS RESEARCH AND TECHNOLOGIES GMBH AND CO KG
OS Artificial Sequence
PN JP 2002537822-A/1
PD 12-NOV-2002
PF 25-FEB-2000 JP 2000602811
PR 02-MAR-1999 DE 199 09 156.0
PI CHRISTOPH HULSE, BETTINA BAUER, CLAUS SIMANDI, REINHARD LUEHRMANN,
PI TILMANN ACHSEL, HANS PETER VORNLOCHER
PC C12N15/09, C12Q1/68, G01N33/53, G01N33/56, G01N33/58, C12N15/00 CC
Applamer
FH Key Location/Qualifiers
FT source 1.40
Location/Qualifiers
1.40
/organism="synthetic construct"
/mol_type="genomic RNA"
/db_xref="taxon:32630"

Query Match 24.3%; Score 31.8; DB 1; Length 40;
Best Local Similarity 94.3%; Pred. No. 0.83;
Matches 33; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 73 AAATTATACGACATCGCTTGTATGCCCTTGCGAG 107
DB 1 AAGTGATACGACATCGCTTGTATGCCCTTGCGAG 35

RESULT 2
AR343402 40 bp RNA linear PAT 17-AUG-2003
LOCUS AR343402
DEFINITION Sequence 1 from patent US 6579681.
ACCESSION AR343402
VERSION AR343402.1 GI:33738945
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 40)
Hulse, C., Bauer, B., Simandi, C., Luehrmann, R., Achsel, T. and
Vornlocher, H.-P.
Test system for detecting a splicing reaction and use thereof
JOURNAL Patent: US 6579681-A 1 17-JUN-2003;
FEATURES
source 1.40
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 24.3%; Score 31.8; DB 1; Length 40;
Best Local Similarity 94.3%; Pred. No. 0.83;
Matches 33; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

LOCUS	DEFINITION	AX034867	40 bp	RNA	linear	PAT 15-NOV-2000
LOCUS	Sequence 1 from Patent DE19909156.	AX034867				
ACCESSION	AX034867					
VERSION	AX034867.1	GI:11190807				
KEYWORDS	synthetic construct					
SOURCE	artificial sequences.					
ORGANISM						
REFERENCE	1 Vornlocher,H.P., Bauer,B., Smandl,C., Achsel,T., Huels,C. and Luehrmann,R. Patent: DE 19909156-A 1 07-SEP-2000; AVENTIS RES & TECH GMBH & CO (DB)					
JOURNAL	location/Qualifiers					
FEATURES	1..40					
source	/organism="synthetic construct" /mol_type="unassigned RNA" /db_xref="taxon:32630" /note="APRIMER"					
Query Match	24.3%; Score 31.8; DB 1; Length 40;					
Best Local Similarity	94.3%; Pred. No. 0.83;					
Matches	33; Conservative 0; Mismatches 2; Indels 0; Gaps 0;					
Db	1 AAGTATACCGACATCGCTTGATGCCCTTGCCAG 35					
RESULT 4						
LOCUS	130279	42 bp			linear	PAT 06-FEB-1997
DEFINITION	Sequence 29 from patent US 5580737.					
ACCESSION	130279					
VERSION	130279.1	GI:1821070				
KEYWORDS	Unknown.					
SOURCE	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	1 (bases 1 to 42) Polisky,B., Jensen,R.D. and Gold,L. High-affinity nucleic acid ligands that discriminate between theophylline and caffeine Patent: US 5580737-A 29 03-DEC-1996;					
JOURNAL	location/Qualifiers					
FEATURES	1..42					
source	/organism="unknown" /mol_type="unassigned DNA"					
Query Match	24.3%; Score 31.8; DB 1; Length 42;					
Best Local Similarity	94.3%; Pred. No. 0.86;					
Matches	33; Conservative 0; Mismatches 2; Indels 0; Gaps 0;					
Db	1 AAGTATACCGACATCGCTTGATGCCCTTGCCAG 35					
RESULT 5						
LOCUS	130287	38 bp			linear	PAT 06-FEB-1997
DEFINITION	Sequence 37 from patent US 5580737.					
ACCESSION	130287					
VERSION	130287.1	GI:1821078				
KEYWORDS	.					

SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 38)
TITLE	Pollisley,B., Jenkins,R.D. and Gold,L. High-affinity nucleic acid ligands that discriminate between theophylline and caffeine
JOURNAL	Patent: US 5580737-A 37 03-DEC-1996;
FEATURES	Location/Qualifiers
SOURCE	1..38 /organism="unknown" /mol_type="unassigned DNA"
Query Match	23.2%; Score 30.4; DB 1; Length 38; Best Local Similarity 96.9%; Pred.No.1.1; Matches 31; Conservative 0; Mismatches 1; Indels 0; Gaps 0.
Oy	76 TTATACGAGCATCGCTTGATGCCCTTGGCAG 107 3 TGATACGAGCATCGCTTGATGCCCTTGGCAG 34
RESULT 6	
LOCUS	I30256 40 bp DNA linear PAT 06-FEB-1997
DEFINITION	Sequence 6 from patent US 5580737.
ACCESSION	I30256
VERSION	I30256.1 GI:1821047
KEYWORDS	.
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 40) Pollisley,B., Jenkins,R.D. and Gold,L. High-affinity nucleic acid ligands that discriminate between theophylline and caffeine
AUTHORS	Patent: US 5580737-A 6 03-DEC-1996;
TITLE	Location/Qualifiers
JOURNAL	1..40 /organism="unknown" /mol_type="unassigned DNA"
FEATURES	
SOURCE	
Query Match	23.2%; Score 30.4; DB 1; Length 40; Best Local Similarity 96.9%; Pred.No.1.1; Matches 31; Conservative 0; Mismatches 1; Indels 0; Gaps 0.
Oy	76 TTATACGAGCATCGCTTGATGCCCTTGGCAG 107 2 TGATACGAGCATCGCTTGATGCCCTTGGCAG 33
Db	
RESULT 7	
LOCUS	AX427118 24 bp DNA linear PAT 18-JUN-2002
DEFINITION	Sequence 18 from Patent W00196559.
ACCESSION	AX427118
VERSION	AX427118.1 GI:21530501
KEYWORDS	.
SOURCE	synthetic construct artificial sequences.
ORGANISM	1 Ellington,A.D., Hesselbergh,J., Marshall,K., Robertson,M., Soeter,L., Davidson,E., Cox,J.C. and Reidel,T. Regulatable, catalytically active nucleic acids Patent: WO 0196559-A 18 20-DEC-2001; Board of Regents, The University of Texas System (US) Location/Qualifiers
REFERENCE	1..24 /organism="synthetic construct" /mol_type="unassigned DNA" /db_xref="taxon:32630" /note="Primer"
AUTHORS	
TITLE	
JOURNAL	
FEATURES	
SOURCE	

Query Match 17.1%; Score 22.4; DB 1; Length 24;
 Best Local Similarity 95.8%; Pred. No. 3.9;
 Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 19 TTATCTGTAACTCTAATCAACG 42
 DB 1 TTATCTGTAACTCTAATCAACG 24

RESULT 8
 AX590751/c 20 bp. DNA linear PAT 27-JAN-2003
 LOCUS Sequence 191 from Patent WO02086113.
 DEFINITION AX590751
 ACCESSION AX590751 GI:27949300
 VERSION
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 artificial sequences.

REFERENCE 1
 AUTHORS Cookson,W.O., Moffat,M.F., Allen,M. and Lench,N.
 TITLE Enzyme and snp marker for disease
 JOURNAL Patent: WO 02086113-A 191 31-OCT-2002;
 Iets Innovation Limited (GB)
 FEATURES location/Qualifiers
 source 1..20
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Primer"

Query Match 12.1%; Score 15.8; DB 1; Length 20;
 Best Local Similarity 89.5%; Pred. No. 13;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CTGAGTATTAAGTGACTTA 21
 DB 19 CTGAGTATTAAGTGACTTA 1

RESULT 9
 DOGSCN4AB 20 bp. DNA linear STS 11-APR-1996
 LOCUS Canis familiaris skeletal muscle sodium channel (SCN4A) STS DNA, 3'
 DEFINITION primer, sequence tagged site.
 ACCESSION L77475.1 GI:1261762
 VERSION L77475
 KEYWORDS STS; PCR identification; PCR primer; sequence tagged site; skeletal
 SOURCE muscle sodium channel; universal mammalian STS.
 ORGANISM Canis familiaris (dog)
 Canis familiaris
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 1 (bases 1 to 20)
 Vente,P.J., Brouillette,J.A., Yuzbysyan-Gurkan, V. and Brewer,G.J.
 TITLE Gene-specific universal mammalian sequence-tagged sites:
 JOURNAL application to the canine genome
 COMMENT Unpublished (1996)
 ORIGINAL SOURCE text: Canis familiaris DNA.
 Gene-specific universal mammalian sequence-tagged site for SCN4A.
 primer for the 3' end is in exon 24. Human product is 1177 bp.
 Canine product is 1100 bp. PCR conditions: 1 min, 94 C, 2 min, 57
 C, 3 min, 72 C, 35 cycles.
 FEATURES location/Qualifiers
 source 1..20
 /organism="Canis familiaris"
 /mol_type="genomic DNA"
 /db_xref="taxon:9615"
 primer_bind 1..20
 /note="PCR primer binding site"
 STS 1..20
 /evidence=experimental

Query Match 11.6%; Score 15.2; DB 1; Length 20;
 Best Local Similarity 85.0%; Pred. No. 15;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 83 AGCATCGTCTGTATGATGCCCTT 102
 DB 1 AGCAGGTCGGATGCGCCTT 20

RESULT 10
 AX705641/c 18 bp. DNA linear PAT 04-APR-2003
 LOCUS AX705641
 DEFINITION Sequence 310 from Patent WO03014388.
 ACCESSION AX705641
 VERSION AX705641.1 GI:29562306
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 artificial sequences.

REFERENCE 1
 AUTHORS Distler,J., Model,F. and Taubert,H.
 TITLE Method and nucleic acids for the analysis of colon cancer
 JOURNAL Patent: WO 03014388-A 310 20-FEB-2003;
 EpiGenomics AG (DE)
 FEATURES location/Qualifiers
 source 1..18
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Detection oligonucleotide for PCR"

Query Match 10.5%; Score 13.8; DB 1; Length 18;
 Best Local Similarity 88.2%; Pred. No. 18;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CAATCCCTGCTTAATT 77
 DB 18 CAATCCCTGCTTAATT 2

RESULT 11
 AX705643 18 bp. DNA linear PAT 04-APR-2003
 LOCUS AX705643
 DEFINITION Sequence 312 from Patent WO03014388.
 ACCESSION AX705643
 VERSION AX705643.1 GI:29562308
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 artificial sequences.

REFERENCE 1
 AUTHORS Distler,J., Model,F. and Taubert,H.
 TITLE Method and nucleic acids for the analysis of colon cancer
 JOURNAL Patent: WO 03014388-A 312 20-FEB-2003;
 EpiGenomics AG (DE)
 FEATURES location/Qualifiers
 source 1..18
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Detection oligonucleotide for PCR"

Query Match 10.5%; Score 13.8; DB 1; Length 18;
 Best Local Similarity 88.2%; Pred. No. 18;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CAATCCCTGCTTAATT 77
 DB 1 CAATCCCTGCTTAATT 17

RESULT 12

```

AX822833/c
LOCUS AX822833 18 bp DNA linear PAT 11-DEC-2003
DEFINITION Sequence 725 from Patent EP1340818.
ACCESSION AX822833
VERSION AX822833.1 GI:39749469
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Adorjan,P., Burger,M., Maier,S., Nimmrich,I., Becker,E., Lesche,R.,
Rujan,T. and Schmitt,A.
TITLE Method and nucleic acids for the analysis of a colon cell
proliferative disorder
JOURNAL Patent: EP 1340818-A 725 03-SEP-2003;
Epigenomics AG (DE)
FEATURES
source
Location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Detection oligonucleotide for PCR"

Query Match 10.5%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 18;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CATCCCGTGGCTAAATT 77
Db 18 CATCCCGTGGCTAAATT 2

RESULT 13
AX826473/c
LOCUS AX826473 18 bp DNA linear PAT 11-DEC-2003
DEFINITION Sequence 725 from Patent WO03072821.
ACCESSION AX826473
VERSION AX826473.1 GI:39751987
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Adorjan,P., Burger,M., Maier,S., Nimmrich,I., Becker,E., Lesche,R.,
Rujan,T. and Schmitt,A.
TITLE Method and nucleic acids for the analysis of a colon cell
proliferative disorder
JOURNAL Patent: WO 03072821-A 725 04-SEP-2003;
Epigenomics AG (DE)
FEATURES
source
Location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Detection oligonucleotide for PCR"

Query Match 10.5%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 18;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 CATCCCGTGGCTAAATT 77
Db 18 CATCCCGTGGCTAAATT 2

RESULT 14
AX255681
LOCUS AX255681 16 bp DNA linear PAT 10-OCT-2001
DEFINITION Sequence 102 from Patent WO0170982.
ACCESSION AX255681
VERSION AX255681.1 GI:16074736
KEYWORDS
SOURCE
synthetic construct

```

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ORGANISM
synthetic construct
artificial sequences.
REFERENCE
1
AUTHORS Beger,C., Barber,J. and Wong-Strat,F.
TITLE Brca-1 regulators and methods of use
JOURNAL Patent: WO 0170982-A 102 27-SEP-2001;
Immunol Incorporated (US) ; Beger, Carmela (DE)
FEATURES
source
Location/Qualifiers
1..16
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Synthetic oligonucleotide"

Query Match 9.8%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 20;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 84 GCATCGCTTGATGCC 99
Db 1 GCATGCTTGAAAGCC 16

RESULT 15
AX674315/c
LOCUS AX674315 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 2760 from Patent WO03004526.
ACCESSION AX674315
VERSION AX674315.1 GI:29332663
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Telerman,A., Amson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 2760 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
Location/Qualifiers
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 9.8%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 21;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 94 GATGCCCTTGCGAGAT 109
Db 17 GATGCTTGCGAGAT 2

RESULT 16
AX729684/c
LOCUS AX729684 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 1318 from Patent WO03025175.
ACCESSION AX729684
VERSION AX729684.1 GI:30509027
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Telerman,A., Amson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 1318 27-MAR-2003;

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FEATURES Molecular Engines Laboratories (FR)
 Location/Qualifiers
 1.17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 21;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 94 GATGCCCTTGCGAGAT 109
 |||||
 17 GATGCTCTTGCGAGAT 2

RESULT 17
 AX736832 17 bp DNA linear PAT 08-MAY-2003
 LOCUS Sequence 2422 from Patent WO03025177.
 AX736832
 AX736832.1 GI:30516120
 VERSION
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
 AUTHORS
 TITLE
 1
 Telerman, A., Anson, R. and Tuijinder, M.
 Sequences involved in phenomena of tumour suppression, tumour
 reversion, apoptosis and/or resistance to viruses and the use
 thereof as medicaments
 Patent: WO 03025177-A 2422 27-MAR-2003;
 Molecular Engines Laboratories (FR)
 Location/Qualifiers
 1.17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

FEATURES
 source

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 21;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 86 ATCGTCTTGATGCCCT 101
 |||||
 2 ATCTCTTGATGCCCT 17

RESULT 18
 AX758557 17 bp DNA linear PAT 25-JUN-2003
 LOCUS Sequence 1878 from Patent WO03040369.
 AX758557
 AX758557.1 GI:32253173
 VERSION
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
 AUTHORS
 TITLE
 1
 Telerman, A., Anson, R. and Tuijinder, M.
 Sequences involved in tumoral suppression, tumoral reversion,
 apoptosis and/or viral resistance phenomena and their use as
 medicaments
 Patent: WO 03040369-A 1878 15-MAY-2003;
 Molecular Engines Laboratories (FR)
 Location/Qualifiers
 1.17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

FEATURES
 source

Query Match 9.8%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 21;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 81 CCAGATCGTCTTGAT 96
 |||||
 17 CCAGATCGTCTTGAT 2

RESULT 19
 I39411 15 bp DNA linear PAT 13-MAY-1997
 LOCUS Sequence 449 from patent US 5616488.
 I39411/c
 I39411
 I39411.1 GI:2083891
 VERSION
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.

REFERENCE
 AUTHORS
 TITLE
 1 (bases 1 to 15)
 Sullivan, S., Draper, K.G., McSwigen, J. and Stinchcomb, D.T.
 IL-5 targeted ribozymes
 Patent: US 5616488-A 449 01-APR-1997;
 Location/Qualifiers
 1.15
 /organism="unknown"
 /mol_type="unassigned DNA"

FEATURES
 source

Query Match 9.5%; Score 12.4; DB 1; Length 15;
 Best Local Similarity 92.9%; Pred. No. 20;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 TCTATCTAAGCGG 44
 |||||
 15 TCTATCTAAGCGG 2

RESULT 20
 AX635705 15 bp RNA linear PAT 21-FEB-2003
 LOCUS Sequence 2844 from Patent EP1260586.
 AX635705
 AX635705.1 GI:28471319
 VERSION
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 ORGANISM unidentified

REFERENCE
 AUTHORS
 1
 Stinchcomb, D.T., Dudycz, L.W., Chowrira, B., Grimm, S., DiRenzo, A.,
 Karpelisky, A., Draper, K.G., Kisch, K., Matulic-Adamic, J.,
 McSwigen, J.A., Modak, A., Pavco, P., Beigelman, L., Sullivan, S.M.,
 Sweedler, D., Thompson, J.D., Tracz, D., Ueman, N., Wincott, F.E. and
 Woolf, T.
 Method and reagent for inhibiting the expression of disease related
 genes
 Patent: EP 1260586-A 2844 27-NOV-2002;
 RIBOZYME PHARMACEUTICALS, INC. (US)
 Location/Qualifiers
 1.15
 /organism="unidentified"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32644"

FEATURES
 source

Query Match 9.5%; Score 12.4; DB 1; Length 15;
 Best Local Similarity 92.9%; Pred. No. 20;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 TCTATCTAAGCGG 44
 |||||
 15 TCTATCTAAGCGG 2

RESULT 21

AR261549/c 12 bp DNA linear PAT 29-JAN-2003
LOCUS AR261549
DEFINITION Sequence 16 from patent US 6322971.
ACCESSION AR261549
VERSION AR261549.1 GI:28072617
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 12)
TITLE Unclassified.
AUTHORS Cheverlin,A.B. and Kramer,F.R.
JOURNAL Oligonucleotide arrays and their use for sorting, isolating,
FEATURES sequencing, and manipulating nucleic acids
source Patent: US 6322971-A 16 27-NOV-2001;
1. 12 Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"

Query Match 9.2%; Score 12; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 76 TTATACCAGCAT 87
|||||
12 TTATACCAGCAT 1

RESULT 22 AR033725/c 15 bp DNA linear PAT 29-SEP-1999
LOCUS AR033725
DEFINITION Sequence 491 from patent US 5869253.
ACCESSION AR033725
VERSION AR033725.1 GI:5949330
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
TITLE Unclassified.
AUTHORS Draper,K.G.
JOURNAL Method and reagent for inhibiting hepatitis C virus replication
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 23;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGTAATGCCTA 118
|||||
15 GCAGTAATGCCTA 1

RESULT 23 AR113547/c 15 bp DNA linear PAT 16-MAY-2001
LOCUS AR113547
DEFINITION Sequence 491 from patent US 6132966.
ACCESSION AR113547
VERSION AR113547.1 GI:14093869
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
TITLE Unclassified.
AUTHORS Draper,K.G.
JOURNAL Method and reagent for inhibiting hepatitis C virus replication
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"

/mol_type="unassigned DNA"

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 23;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGTAATGCCTA 118
|||||
15 GCAGTAATGCCTA 1

RESULT 24 BD207458/c 15 bp RNA linear PAT 17-JUL-2003
LOCUS BD207458
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related
ACCESSION BD207458
VERSION BD207458.1 GI:33017228
KEYWORDS JP 2002512791-A/1048.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 15)
TITLE Unclassified.
AUTHORS Blatt,U., Mcsweeney,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
JOURNAL Enzymatic nucleic acid treatment of diseases or conditions related
to hepatitis C virus infection
PATENT: JP 2002512791-A 1048 08-MAY-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Hepatitis virus (hepatitis C virus)
PN JP 2002512791-A/1048
PD 08-MAY-2002
PF 26-APR-1999 JP 2000545991
PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
LAWRENCE BLATT,JAMES A MCSWIGGEN,ELISABETH ROBERTS,PAMELA A PI
PAVCO,
PI DENNIS MACEJAK
PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
PC A61K37/66,
PC C12N15/00
CC Enzymatic nucleic acid treatment of diseases or conditions CC
related to
CC hepatitis C virus infection.
FH Key Location/Qualifiers
FT source 1. 15
/organism="Hepatitis virus (hepatitis C FT
virus)"
Location/Qualifiers
1. 15
/organism="unidentified"
/mol_type="genomic RNA"
/db_xref="taxon:32644"

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 23;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGTAATGCCTA 118
|||||
15 GCAGTAATGCCTA 1

RESULT 25 I57954/c 15 bp DNA linear PAT 07-OCT-1997
LOCUS I57954
DEFINITION Sequence 491 from patent US 5610054.
ACCESSION I57954
VERSION I57954.1 GI:2483018
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)

AUTHORS Draper,K.G.
TITLE Enzymatic RNA molecule targeted against Hepatitis C virus
JOURNAL Patent: US 5610054-A 491 11-MAR-1997;
FEATURES Location/Qualifiers
source 1.15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 23;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 104 GCAGATAATGCCTA 118
|||||
DB 15 GCAGTAGATGCTTA 1

RESULT 26
LOCUS AR180609 15 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 677 from patent US 633152.
ACCESSION AR180609
VERSION AR180609.1 GI:20222642
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 633152-A 677 25-DEC-2001;
FEATURES Location/Qualifiers
source 1.15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 23;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 85 CATGCTCTGATGCC 99
|||||
DB 1 CATGCTCTGATGCC 15

RESULT 27
LOCUS AR132368 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 793 from patent US 6194150.
ACCESSION AR132368
VERSION AR132368.1 GI:14121273
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Scinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE Nucleic acid based inhibition of CD40
JOURNAL Patent: US 6194150-A 793 27-FEB-2001;
FEATURES Location/Qualifiers
source 1.15
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Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 87 TCGTCTTGATGCC 99
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DB 15 TCGTATTGATGCC 3

RESULT 28
LOCUS AR132369/c 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 794 from patent US 6194150.
ACCESSION AR132369
VERSION AR132369.1 GI:14121274
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Scinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE Nucleic acid based inhibition of CD40
JOURNAL Patent: US 6194150-A 794 27-FEB-2001;
FEATURES Location/Qualifiers
source 1.15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 87 TCGTCTTGATGCC 99
|||||
DB 15 TCGTATTGATGCC 3

RESULT 29
LOCUS I61634 15 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 188 from patent US 5658780.
ACCESSION I61634
VERSION I61634.1 GI:2479582
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Scinchcomb,D.T., Draper,K.G. and McSwiggen,J.
TITLE Rel a targeted ribozymes
JOURNAL Patent: US 5658780-A 188 19-AUG-1997;
FEATURES Location/Qualifiers
source 1.15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 48 CCTCTCTAGTAA 60
|||||
DB 14 CCTCTCTAGAGA 2

RESULT 30
LOCUS I77383 15 bp DNA linear PAT 03-APR-1998
DEFINITION Sequence 90 from patent US 5693532.
ACCESSION I77383
VERSION I77383.1 GI:3013537
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS McSwiggen,J., Draper,K., Pavco,P. and Woolf,T.
TITLE Respiratory syncytial virus ribozymes
JOURNAL Patent: US 5693532-A 90 02-DEC-1997;
FEATURES Location/Qualifiers
source 1.15
/organism="unknown"

/mol_type="unassigned DNA"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 52 TCTAGTAGACCAT 64
15 TCTAGTAGACCAT 3

Db

RESULT 31
LOCUS I77384 15 bp DNA linear PAT 03-APR-1998
DEFINITION Sequence 91 from patent US 5693532.
ACCESSION I77384
VERSION I77384.1 GI:3013538
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Meswigen,J., Draper,K., Pavco,P. and Woolf,T.
TITLE Respiratory syncytial virus ribozymes
JOURNAL Patent: US 5693532-A 91 02-DEC-1997;
FEATURES Location/Qualifiers
source 1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 52 TCTAGTAGACCAT 64
13 TCTAGTAGACCAT 1

Db

RESULT 32
LOCUS AR180594/c 15 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 662 from patent US 6333152.
ACCESSION AR180594
VERSION AR180594.1 GI:20222627
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 662 25-DEC-2001;
FEATURES Location/Qualifiers
source 1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 58 AGACATCCCGTG 70
13 AGACATCCCATG 1

Db

RESULT 33
LOCUS AX636020/c 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 3159 from Patent EP1260586.
ACCESSION AX636020
VERSION AX636020.1 GI:28471634
KEYWORDS
SOURCE
ORGANISM

KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified.

REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpelisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,J., Meswigen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 3159 27-NOV-2002;
FEATURES RIBOZYME PHARMACEUTICALS, INC. (US)
source 1..15
/organism="unidentified"
/mol_type="unassigned RNA"
/db_xref="taxon:32644"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 48 CCTCTCTAGTAGA 60
14 CCTCTCTAGTAGA 2

Db

RESULT 34
LOCUS AX638102/c 15 bp RNA linear PAT 24-FEB-2003
DEFINITION Sequence 5241 from Patent EP1260586.
ACCESSION AX638102
VERSION AX638102.1 GI:28473716
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified.

REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpelisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,J., Meswigen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 5241 27-NOV-2002;
FEATURES RIBOZYME PHARMACEUTICALS, INC. (US)
source 1..15
/organism="unidentified"
/mol_type="unassigned RNA"
/db_xref="taxon:32644"

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 52 TCTAGTAGACCAT 64
15 TCTAGTAGACCAT 3

Db

RESULT 35
LOCUS AX638103/c 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 5242 from Patent EP1260586.
ACCESSION AX638103
VERSION AX638103.1 GI:28473717
KEYWORDS
SOURCE unidentified
ORGANISM unidentified

unclassified.

REFERENCE
AUTHORS

1 Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A.,
Karpelisky,A., Draper,K.G., Kistich,K., Matulic-Adamic,J.,
Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.

TITLE

Method and reagent for inhibiting the expression of disease related

JOURNAL

genes
Patent: EP 1260586-A 5242 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)

FEATURES

location/Qualifiers
1..15
/organism="unidentified"
/mol_type="unassigned RNA"
/db_xref="taxon:32644"

source

Query Match 8.7%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY

52 TCTAGTAGACCAAT 64
|||
13 TCTAGTAGACCAAT 1

Db

Search completed: December 9, 2004, 17:19:02
Job time : 1 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2004, 17:32:23 ; Search time 0.001 Seconds
(without alignments)
21.746 Million cell updates/sec

Title: us-09-661-658-2

Perfect score: 131
Sequence: 1 gcctagctataagtgactt.....atgcctaaagactaccctt 131

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 6 seqs, 83 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 8
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 6 summaries

Database : rnpndb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12.8	9.8	16	US-10-239-958-102	Sequence 102, App
2	11.8	9.0	15	US-10-964-195-5	Sequence 5, Appl
3	10	7.6	13	US-60-522-459-11465	Sequence 11465, A
4	9.8	7.5	13	US-60-522-459-9037	Sequence 9037, Ap
5	9.8	7.5	13	US-60-522-459-9179	Sequence 9179, Ap
6	9.8	7.5	13	US-60-522-459-12497	Sequence 12497, A

ALIGNMENTS

RESULT 1
; Sequence 102, Application US/10239958
; GENERAL INFORMATION:
; APPLICANT: BARBER, JACK
; APPLICANT: WONG-STAL, FLOSSIE
; TITLE OF INVENTION: BRCA-1 REGULATORS AND METHODS OF USE
; FILE REFERENCE: 039316/0603
; CURRENT APPLICATION NUMBER: US/10/239,958
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 09/536,058
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 256
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 102
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-239-958-102

Query Match 9.8%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.52;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 84 GCATCGTTGATGCC 99
DB 1 GCATGCTTTGAAGCC 16

RESULT 2
; Sequence 5, Application US/10964195

; GENERAL INFORMATION:
; APPLICANT: Rosendium et al.
; TITLE OF INVENTION: Immunotoxins Directed Against C-erbB-2 (HER-2/Neu)
; FILE REFERENCE: D5425CIP2
; CURRENT APPLICATION NUMBER: US/10/964,195
; CURRENT FILING DATE: 2004-10-13
; PRIOR APPLICATION NUMBER: US/09/320,156
; PRIOR FILING DATE: 1999-05-26
; PRIOR APPLICATION NUMBER: 08/404,499
; PRIOR FILING DATE: 1995-03-17
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 5
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer directed towards 5' coding region of TAB 250
US-10-964-195-5

Query Match 9.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 0.89;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 88 CGCTTGATGCCCTT 102
DB 15 CATCTTGATGCCCAT 1

RESULT 3
; Sequence 11465, Application US/60522459
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: BIOINFORMATICAALLY DETECTABLE GROUP OF NOVEL REGULATORY VIRAL AND
; FILE REFERENCE: 52904
; CURRENT APPLICATION NUMBER: US/60/522,459
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 15575
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11465
; LENGTH: 13
; TYPE: RNA
; ORGANISM: Human
US-60-522-459-11465

Query Match 7.6%; Score 10; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 2.3;
Matches 5; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 20 TATACCTGTA 29
DB 2 UAUACUUGUA 11

RESULT 4
; Sequence 9037, Application US/60522459
US-60-522-459-9037

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/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY VIRAL AND
/ TITLE OF INVENTION: VIRAL ASSOCIATED OLIGONUCLEOTIDES AND USES THEREOF
/ FILE REFERENCE: 52904
/ CURRENT APPLICATION NUMBER: US/60/522,459
/ CURRENT FILING DATE: 2004-10-04
/ NUMBER OF SEQ ID NOS: 15575
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 9037
/ LENGTH: 13
/ TYPE: RNA
/ ORGANISM: Human
US-60-522-459-9037
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Best Local Similarity 53.8%; Pred. No. 2.5;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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QY      29 AATCTATCTAAAC 41
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Db       1 AAUAUAUAUAAC 13
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RESULT 5
US-60-522-459-9179/c
/ Sequence 9179, Application US/60522459
/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY VIRAL AND
/ TITLE OF INVENTION: VIRAL ASSOCIATED OLIGONUCLEOTIDES AND USES THEREOF
/ FILE REFERENCE: 52904
/ CURRENT APPLICATION NUMBER: US/60/522,459
/ CURRENT FILING DATE: 2004-10-04
/ NUMBER OF SEQ ID NOS: 15575
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 9179
/ LENGTH: 13
/ TYPE: RNA
/ ORGANISM: Human
US-60-522-459-9179
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Best Local Similarity 84.6%; Pred. No. 2.5;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      80 ACCAGCATGCTCT 92
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Db       13 ACCAGCCTCTCT 1
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RESULT 6
US-60-522-459-12497/c
/ Sequence 12497, Application US/60522459
/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY VIRAL AND
/ TITLE OF INVENTION: VIRAL ASSOCIATED OLIGONUCLEOTIDES AND USES THEREOF
/ FILE REFERENCE: 52904
/ CURRENT APPLICATION NUMBER: US/60/522,459
/ CURRENT FILING DATE: 2004-10-04
/ NUMBER OF SEQ ID NOS: 15575
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 12497
/ LENGTH: 13
/ TYPE: RNA
/ ORGANISM: Human herpesvirus 2
US-60-522-459-12497
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Query Match          7.5%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      42 GGGGAACCTCTCT 54
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Db       13 GGGAAATCTCTCT 1
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Search completed: December 9, 2004, 17:32:23
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